by Clive Cookson Science Correspondent

The need for communication was emphosized when industrial and commercial mathematiciona met to discuss the mathematical skills and qualities needed by graduetes.

The deys when administrators and managers were rendy to take scientific

Overseas continued

the mathematical skills needed, but not the nhility to put across their work. "Our profession exists to The need for communication was communicate results to customers", emphasized when industrial and he said. "A degree course that

unalities needed by graduetes.

Sir Herman Bondi, chief scientific odviser at the Ministry of Defeoce, set the scene by suggesting that very few manhs courses at schools or maiversities pur sufficient emphasis maiversities pur sufficient emphasis and Mr. Johnston. They insisted the account of the arguments outet the scene by suggosing that over the scene of the scene of the suggestion of the



NUS attacks union attempts to restrict Jewish societies

The National Union of Students this week roundly criticized attempts by university student unions to estrict the activities of campus Jewish steicties and their members.
The unprecedented move follows

a condemnation of Zlouism as ruclem by some student unions and claims that an Israel week currently under-way at Salford University would be

way at Salford University would be disrupted if it went olical.

In a strongly worded statement Mr Charles Clarke, NUS president said: "The whole force of the union will be used to protect both Pulestinian and Jewish students in the event of their coming under attock.

"The first responsibility of the NUS is to defend the rights of all its members to participate fully in all the activities of their students' Maths and science students must be trained in debate and the cunstruction of coherent essays, like sume in their arts ood sucial selence colleagues, he told the symposium, organized by the lustitute of Mathematics and its Applications.

Universities must convince students of the impurrance of explaining their results to others, before telling then how to do su. "The mimber of positions open for hermits is rather small in modern for positions open for hermits is rather small in modern for hermits in rather small in modern for hermits is rather small in modern for hermits is rather small in modern for hermits in rather small in modern for hermits is rather small in modern for hermits in rather small in modern for hermits in rather small in modern for hermits in rather small in modern for hermits for hermits we may have to be a modern for hermits in the small small

ing the Broad Left, the National Organization of Labour Student in the national student committee the Communist Party, opposed introduction of haus and dead rights within student unions to exection of the membership and itself respected the rights of attentional Sulford union's many the death of the lewish society the facilities to organize m kylines.

by Sue Reid

Student enralments at polytechnics have reached a record 250,000 in the current acadomic year, according to the lotest figures released this week by the Committee of Directors of Polytechnics.

They show that foll-line and sandwich course adolissions, excluding education. The scole and sundwich course adolissions, excluding education. The scole and growth of short course enrolling education. The scole and growth of short course enrolling education. The polytechnics now house the previous year. University and commerce, the CDP and sity admissions increased by just under 4 per cent in the same period.

The number of polytechnic students of engineering and commerce, the CDP and sunders the previous year. University and commerce, the CDP and sunders in this category, soys the number of polytechnic students are now on particular or short courses.

Degree and "degree equivalent" and hirmingham Polytechnic mekes the biggest commitment to portain and a 4 per cent increase over and and sundwich students of polytechnic mekes over the full-time and sandwich students and minuting from a day to continuing discourses of student population. Nineteen per cent of full-time and ssutdwich students section of short course entrol and direct indication. The scole and sunders section of short course entrol and continuing education. The scole and sundance of polytechnics in the scole and sundance of the polytechnics in the polytechnic sundance of the polytechnic means and an extension of the polytechnic sundance of the polytech The Union of Jewish Student is week unsuccessfully some a injunction to stop the firmed disruption of the Israel web as which last October passed the which last October passed the condomning Zionism as range an undertaking that the charactery would be shrated facilities normally focilities normally. Last week Essex becare in

sixth university to pass an ideal motion equating Zionian identification.

Mr John Owen, president Salford University student mid denied this tweek that though discupt the Israel week had be

Universities continued

A COMPANY OF THE SUPERIOR STATES

POSTS IN GHANA

must hove a British aducational approprieta degree and experience

SCHOOLS

3 HEADS OF MATHEMATICS DEPARTMENTS

NANDOM SECONDARY SCHOOL, NANDOM

To teach Methemetice up to "A" lavel, organiza Mnihemetice teaching ihrouphout the school and liaise with the Ghane Association of Mathematics Taeohers. Degree in Melhematica or with o subsignited Mathematics component end 3 to 5 years, feaching expariance essential. Taeching qualification desirable. Selary : £4010-£5580 pa. 77 CS 68

NAVRONGO SECONDARY SCHOOL NAVRONGO

To taech Malhemetica up to "A" leval and organize the Methamatics
Depertment. Dagree to Methamatics or
with a substential Mathematica
component and 5 years' teaching exparience including "A " levet Malhematics (preferably SMP) essential. Teaching quelification

Balary £4010-£5580 pa. 77. C8. 67. TAMALE'SECONDARY

SCHOOL TAMALE

To taach Mathomelica up to "A" leval end to organiza the Melhamelice Depertmani. Degrae in Mathemetics or with e eubstantial Melhomatice component and 5 years' taechlod experience including "A" level Mathematica cesenilei. Teeching qualification destrable quellication desirable. Salary: £4010-£5580pa. 77 OS 68

SIXTH FORM SCIENCE

COLLEGE, LEGON, ACCRA To teach Chemistry to "A" level no taech Citemistry to "A" level and organize the Chemistry Department. Degree in Chemistry or with a substenilel Chemistry component end et least 5 yeers' teaching experience et "A" level essentiel. Haad of Dopatiment experience and teaching quelificellons daelrable. Selary : £4588-£5818 pa.

HEAD OF CHEMISTRY

TEACHER TRAINING COLLEGE

HEAD OF RESOURCES DEPARTMENT TECHNICAL TEACHERS COLLEGE, KUMASI

To develop and leach a course in Educational Technology, to encourage stall to develop teaching materials and to organize the Resource Centre es e development centre lor technical

iostitutions. Degree and at leest 5
years, experience in an Educational
Technology Uott in gridary affaction
essential, Diploma; in Educational
Technology an adventage.
Salary: 14589-15818 ps. 77 CT 5

Confrects are for 4 years (shotter periode mey be possible) end ere guerenteed by the Brilleh Council. They loclude the lollowing henefits: return passege for the teacher and tomity; trae accommodation; overseas ellowances; ellowences for children end boerding school less; feree for children's holidsy visits outfit end children's holidsy visila; outifi end beggaga allowancao; assiglent with duty and ireight on imported cer; paid lerminel layer.

Plocas write, bitelly etaling qualifications and length of eporoprieta axerience, quoting reference number.

OVERSEAS TEACHING POSTS

ENGLISH AS A FOREIGN LANGUAGE (Pakistan)

Peoples Open University, Isinmaland Cendidelos abould he UK citizona, possese end MA in Applied Linguistice and have considerable experience in TEFL overages and in materials preparation. Prior involvement to nee of edio end televialon ea a mudinm of instruction le en advantago. Selery : In excess of present

Benefija: Overseea allowances: ccommodetion; med icel echeme o-year confrect. LECTORS IN ENGLISH LANGUAGE

(Yugoslavia) Universities of Belgrade,

Universities of Belgrade,
Ljubijene end Prialine
To teach English lenguage to
university atudents of English. Degree
end some experience of TEFL at
tertiery level easeotiel. TEFL
quelification (minimum RSA or PGCE
with TEFL elament) dealreble.
Selary: A local selery of belween
5000 end 6000 new Dinets per month
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Locate the select of this.en.

aproperties in eddition to this en-ering subsidy of £1244 is part into the Lector's UK benk ecount by the

Benefits : free medicel aervica ; employer's portion of superannuction; eccommodellon ellowence in Balgrede end Prialica. One-yeer contract. 77 RU 4143

THE BRITISH COUNCIL

SPECIAL PURPOSES (Kuwalt)

English Languago Centro, University of Kraynt English or Humanities degree and

on MA or Diploms to TEFL or Applied Linguistica plus at loast 3 years' TEFL experience for MA candidates and 5 years' for Diploma candidates. Selery: £7488-£8004 pa local tax

ftee. Banelits : Free lurnlahed accommodetion, elacificity end water; ellowences for children, transport and high cost of living. Two-month annual pessege-paid home leeve. One-year ranewabla contract. 77 AU 2238 LECTURERS IN ENGLISH

(Saudi Arabla) Feculty of Modicine, University of

Riyedh Six male and three fomale lecturers. The letter must be wives of male applicants. To teach Eoglish language to pramedical and linst-year Seudi medical otudente. Candidates must heve e degree and a postgraduate TEFL Diplome or teaching experience in New York TEFL Diplome or teaching experience.

in lieu. Salery : SR3000-5250 por month is Iree according to qualifications and expandence (SR6=£1]. Benalite: 12% enlery bonus: fee furnished ecommodation DUS lurniture ellowanco. Oo eyeet contrati renewahle. 77 AU 45-63

Reluth large era peld. Local ontracts are guaranteed by the

Contracts are guaranteed by the British Council.

Please write, briefly staling qualifications and length of eppropriate aervice, quoting relevent reference number end title of post for furthet information end epolication form to The British Council (Appointments).

65 Device Street, London W1Y 2AA.



OU angry after play censorship

May 13, 1977. No. 290

a 4 per cent increose over

1975.
Engineering and technology full-dme ond soudwich course enrol-ments rose by a dramatic 11 per cent in the polytechnics and the

number of science and mothematics indents increased by 13 ner cent

compared with the previous year, Admissions to university science

and technology programmes vero up by 9 per cent last autumn while

the intake to science courses showed

frefusal by the BBC in screen grothel sceoes in a £20,000 Open toward production of The falcony without mejor cuts is rausing e bitter censorship cunterers.

The BBC has ordered o partial chake of the Genet ploy which idee for screening in September one of 16 television productions companying the Open University's in full-credit course in droma. It is also colled for the rescheduling two other plays in the series, with University and Illoureck hy to the series.

The three plays were originally eduled for transmission on Suntany beduled for transmission on Suntany bowing to the level BBC much last weekend, and Woyshah, should have an cerly Seturally better, refused to make cuts The Edecomp production.

sequences in the play, the play, the play, the play, the play the play

is they then in the brothel agent their dreams os bishop, and an "offis "captration is depicted by head of dripping bluod.

BEC originally argued for dry morning screening sc The BRC originally argued for it is lyopzack until the early morning screening reduction in the length of a to the participents ere stonding the participents ere stonding there was, cloims the Open laif tersity, an objection to the lady's breathing.

Higher Education

Price 18p

'Marxist bias' triggers row.

A lecturer at University College, Swanses, was abused and insulted by her temporary boss after she had tried to put forward en alternative to a "politically biased" course being run by enother lecturer, an industrial tribunal in Cardiff was told this week. told this week.

that complaints from students that courses in English literature given by a Murkist lecturer contained mure politics than literature. Or Ruth Pryor and four colleagues drew up their own course which they asked their department to consider.

and Birmingham Polytechnic mekes the biggest comminuent to portime day and evening students. Central Landon Polytechnic coters for newly 6,000 students on evening courses only, the highest number in this category, and Sheffield provides for the lorgest condingent of sandwhole course students, 2,619 in the current year.

If teacher training numbers are excluded completely, the latest figures reveal that totol full-time and sandwich course admissions for sundwich course admissions for time higher degree courses, obout 1 per cent of the full-time student 1 population and a similar proportion to the previous year.

Nearly 2 per cent of the students

Nearly 3 per cent of the st

to the previous year.

Nearly 2 per cent of the student

The figures reveal that the proporcho of overseas students in the flat in year intake lest outnum was 14 per cent, an increose of 1 per cent over 1975. Neorly 30 per cent in the polyent in the polyenginegring and technology courses and 18 per cent of shose joining in the end of the students on full-time and sondwich courses and narhematics profigerances were from abroad.

Nearly 2 per cent of the students on part-time caurses ere now reading for higher degrees. More than 32,000 students and o further 724 are involved in the course of part-time post-science and marhematics profigerances in these subject areas, nearly 30 per cent of the students of part-time caurses ere now reading for higher degrees. More than 1,501 students are involved in the full-time of part-time caurses ere now reading for higher degrees. More than 32,000 students and o further 724 are involved in the other ospects of part-time caurses ere now reading for higher degrees. More than 32,000 students and o further 724 are involved in the other ospects of part-time caurses ere now reading for higher degrees. More than 32,000 students and o further 724 are involved in the other ospects of part-time caurses ere now reading for higher degrees. More than 32,000 students are involved in the full-time and sondwich courses and of further 724 are involved in the other ospects of part-time caurses ere now reading for higher degrees. More than 32,000 students are involved in the full-time and sondwich courses are involved in the full-time and sondwich courses.

THE TIMES

SUPPLEMENT

Engineering booms as poly enrolments reach record

time or short courses.

Degree and "degree equivalent" courses now account for two-thirds if the full-time and sandwich stitlends and half of ell students following regulor courses of study. Sandwich course edulissions increased by 10 per cent lost summa, compored with 1975, and now provide e third of the total enrolments to sundwich and full-time programmes.

Recout mergers have doubled the proportion of full-time and sandwich students following teacher training courses in the polytechnics. The current level is 16 per cent and this is expected to rise in the coming years as more as more presented.

tiple programmes.

tribunal told

After complaints from students

Decouse she did not get one.

The dispute had arlsen over a new course on nineteenth century literature prepared by lecturer Mr Graham Holderness. She claimed students had already criticized him for his political blas. She drew up her olterootive cnurse when she discovered that it contained books out Chartism, nnurchy and social problems instead of those of recognized writers like Dickons.

The Proposition of the second of the secon

Dr Pryor sold: "I personolly object atrougly to the Marxist school of criticism but I also feel quite strongly about other schools, too. I feel they should be represented in the deportment but this should not bo the only view put forward."

Mr Christopher Heath, for the college, sold that Mr Sins had been annoyed because he believed Dr Pryor was conducting a crueade against her collegua, even offering to bring in students to testify against his conduct.

Mr. Sims deuted making my of the statements about Dr. Pryor, although he conceded that he had seid that her behaviour was not quite streight."

Mr Heath soid that Mr Sints he also been onnoyed by the preamble to Dr Pryor's course, which con-teined a slur on Mr Holderness by suggesting that he tought English literature "through acciology".

The college's case was that Mr Sims's remarks were in the neture.

The college's case was that Mr Sims's remarks were in the neture.

Mr Heeth. Pryor's conduct, said Dahrendorf asks, 5

The tribunal is continuing.

Student leader sent to jail

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reference number(s) for further details and en application form to the British Council (Appointments), 64 Devices Sireel, London W1V 2AA.

lty Frances Gilib

Universities are delving into their own assets to set up hardship funds to support students who will be unable to meet the new fee levels in October.

October.

The government has already indicated that it would make \$500,000 available to universities through recurrent grants. That the aims put forward by individual universities so far rotal more than \$800,000.

include: Mauchester (£100,000), Cardiff (£150,000), Salford (£150,000), Loedon School of Economics (£70,000), Bradlord (£50,000-£70,000), Cardiff (£1,500), Stirling (£3,000), Reoding (£25,000), University of Ulster (£5,700), University of East Anglio tf 15,000), New University of East Anglio tf 15,000, University of East Anglio tf 15,000), University of East Anglio tf 15,000, University They will discuss proposals to be

nolytechnics by the government.

A mumber of universities and polytechnics, including Royal Holloway Collego (Londan), Durham, Liverpool, Chelsea School of Art. Southampton and Hull, have not agreed on a figure for a hardship fund, but have sald thut no self-financing student should be forced to leave in mid-course because all the new fee levels.

Others, such as abit Remark.

Others, such as aBth, Brunel and Northern Ireland Polytechnic, have ogreed there should be no fee increases for such students.

More than 20 of the universities have now agreed to a one-day conference on lution less to he held this week at Bradford Universities.

He said one recent breakthrough was that Hampshire education outhority had Issued a circular to outhority had Issued a circular to further education colleges giving them the right to waite fees. Ayon education nuthority had issued a circular to outhority had Issued a circular

Government has no plans for adult literacy agency's future

Commons in reply to a written question that the future of the programmo would be reviewed in the light of recommendations due to be made to Mrs Williems, Secretary of State for Education and Science, by ALRA's manugement committee and the National Instituto of Adult Education.

thlows growing fears that the momentum achieved by the "pump-priming" activities of ALRA ntey to leopardized if the agency is allowed to die. Since the egency is allowed to die. Since the egency is costablishment in 1975 more than 190,000 students have come forward for help with reading and writing,

The Government has mode no plans to continuo the central funding of sdult literacy provising when the Adult Literacy Resource Agency's three-year term of operation comes to so end next year, Mr Oakes, Minister of State overseeing higher education, said this week.

But he told the House of Commons in reply to a written question that the future of the programmo would be reviewed in summer.

summer.

It is believed to invour o moning down of ALRA as a major resource body. Instead it is expected to recommend that local education authorities make literacy teaching and work with disadvantaged adults. and work with disadvantaged adults generally o mandatory part of their

Sussex offers tech degree

Technical college students will ha able in study at Sussex University for a degree in engineering under a new scheme agreed between the university and the Sussex Engineering Examinations Board.

Whithing technical colleges for a two-year course leading to the OND (tech). This course will be taught and examined ander the negly of the Sussex Engineering Examinations Board.

On semiple ice of the course state.

Ing Examinations Board.

An erticle in the university bulled and structural angineer legislation of the course, stingled in the course in ing on inquiry into the catolings of the course ing on inquiry into the catolings of the course, stingled in the course in the c Technology, and then to a BSc delional on students achieving a has been orranged in consultation honours degree in the school of satisfectory standard in the OND with the Arts Couedl.

Students will register at Brighton, admissiona requirements of the uni-Chichester, Eesthourne, Lewas or versity.

Edinburgh gives students court places

the university hes also agreed the rectorship will no longer by a student nomination. Staff under a singlo aem. Students by be eligible involves the

Edinburgh University students and non-teeching staff are to have representation for the first time nor the university court.

In a university has also agreed the university has also agreed the rectorship will no longer by a student nomination. Staff a student nomination. Staff a student nomination on court, and the change in mathed of electing the rector, had been agreed after extensive consultation with all concerned.

pleads to v-c for law clinic

Conterbury and District Trades Council has written to Mr Geoffrey Templeman, the vice-chancellor of Kent University, to plead for the law clinic which is due to close in

The trade unionists say they are The trade initials say they are in broad agreement? with a plan far new arrangements for a clinic put forward by the university's law board of stadies. The plan is an amendment of propusals put forward by Professor A. W. B. Simpson, a dean of sociol sciences who is negotiating with the Law Society about it.

The trades conneil says that the clinic trades contern a greater legal equality for everyone, regardless of their financial position. "Wo equality for everyone, regardless of their financial position. "We believe that by giving his students experience of the legal difficultes of ordinory people this will assist both the students and the community. In this respect the clinic is performing a vital role."

performing a vital role."

The council epplands the willingoess of the clinic to take on coses
which might prove impopular with
the local establishment and lists
some of the cases which it believes
may have affected the closure
decision.

In winter 1974 a summons Issued against the chairmon and vice-chairman of a Camerbury City vice-chairman of a Canterbury City Council sub-committee end the assistant city secretary to show cause why they abould not be bound over to keep the peace, after houses were destroyed while squattets were all in them. The cases were dismissed but no order was puelled on costs. de on costs.

In outumn 1975 the clinic represented a complainant linn the activi-ties of St Augustine's Hospital at

an Inquiry.

fo 1975 and 1976 the clinic represented six teuchers from William Tynidule School at the intuiry into the school ofter the Notional Union the school ofter the Notional Union of Teachers had turned down their request for legal representation. In summer 1976 the clinic secured the rejection of an spullcotion to haid a lurge office block in Conterbury when it represented a lucal amenity society at a planning tonning. In autumn 1976 Conterbury City

ionuiry.

In autumn 1976 Cunterbury City Cooncil was successfully prosecuted under the Public Health Act over three sites where refuse was damped during a dusmoun's strike.

Professor Simpson said this week that it was ludicrous to suggest that the cases had affected the university's docision to recommend the clinle's clusuro.

The decision was not taken by an individuel but by an elaborate democratic procedure. It had been approved by a faculty board of 60 neople and by the senato sfter the initial recommendation from a committee of three people.

The Law Society has said that it s unlikely to reach a decision until the middle of June. The amended scheme will, in nny case, be expensive and there are doubts whether the university can afford

Gulbenkian starts arts inquiry

The Gulbenklan Foundation is start-ing on inquiry into the eatolings of the visual artist and bis relationship

with the Aris Coulon.

The committee will examine to whet extect ortists in Britain earn their living directly from their work or indirectly from teaching eod other ectivities; the kind of public

or indirectly from teacong end other ectivities; the kind of public and privete patronage available and aspects of art aducation which teleate to the training of artists.

Currently Britain is treining over 1,000 fina ert greduates, a spokesman from the Gulbenkian Poudation, said the representation on court, and the change in mathed of electing the rector, had been agreed after extensive consultation with all concerned.

Furmerly students had only representatives attending meedags of court withnut full vining powers. The proposals have yet to be agreed by the Privy Council.

Or Indirectly from teacong end of public and private available and aspects of art aducation which teleate to the training of artists.

Currently Britain is treining over 1,000 fina ert greduates, a spokesman from the Gulbenkian Poudation to the Science.

Less theo 10 per cent of Liver
New Appleton director

Dr Frederick Horner, deputy director of the Appleton Laborotory at Slough, is the succeed Dr J. A.

Sexton as director from July, 1977.

The committee is, the kind of public and aspects of art aducation which teleate to the training to embrece class
To the training of artists.

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To the training of embrece class
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Teacher Induction: Teacher Induction: Teacher Induction: Teacher Induction training to embrece class
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Teacher Induction: Teacher Induction: Teacher Induction: Teacher Induction: Teacher Induction: Teacher Induction: Teacher Induction training to embrece class
Tea

Trades council Overseas student numbers un by 13,000—British Council

Overseas student numbers in Britain reached 114,000 in 1975-76, un in-creuse of more than 13,000 over the previous academic year, it has been

The latest figures, due in be re-leased officially by the British Council later this month, show the greatest increase in the numbers of overseas students-6,416—was in further education colleges. Universities took 3,560 more foreign were also having to dealify. sities took 3,560 more foreign students than the previous year and polytechnics an extra 2,990.

There was a 16 per cent rise in fareign students overall in the public sector, with engineering and technology courses bearing the brunt of the increased hunke, Mr George Mellars, assistant director of the light formed englant course. he British Council student centre. revealed at a seminar of university and pulytechnic administrators from the London area inst week.

He told the seminar that there were fewer students from Common-realth countries than from other parts of the world. But they did make up the largest proportion of students from developing countries. the seminar, which was considering "The Dverseas Student in London", heard that 45 per cent of overseas students corrently in the control was not the fact of overseas students corrently in the control was not the fact of overseas students corrently in the capital was likely planned or overseas state.

cupital.

Mr Dick Stephens, secretary of Thames Polytechnic, warned to the present moves by the lattern the Government to cut down for the Government to cut down for the Stephens student numbers were feet. sens student numbers were fored about their college intakes on od! about their college intakes on odd than academic criteria.

There was, he said, a be-emphasis on treating prop-students differently and he

sector of the student populate.

A lack of contact between the instinction and the instinction contact between the instinction and the instinction and the instinction and the instinction and the instinction are instincted by Mr Regulations, deputies accurate to the instinction and inst Bristow, deputy executive series of the United Kingdom Council Overseas Stadent Affairs, He t maintained that there are a chough pre-course Eoglish land resting of students plants is study in Britain althout revealed that the British fact.

overseas atudents found in cult to find accommon reasonable prices, especify London area. Londingues at additional problem for the London colleges where the studying in the capital, he sal



A new sculpture calliled Reunion was unveiled at Bradfold Inheal last week. Mede possible by an anonymous donation, the sculpture of the work of Josephine de Vosconcellos, who is pictured above sit of MocBride, former Assistant Secretary-General of the United National MecBride and Misa Vasconcellos both received hoodrary degree at ceremony following the unveiling.

The finel report on induction pllot schemes in Livetpool end Northumberland prepared by Ur Ray Bolom and Mr Kelth Baker, of the University of Bristal School of Educotion, says that "tutors ero roluctent to extend their cancept of induction training to emisses eless.

minutes or more by their minutes or more by their minutes or more by their minutes of the Interior report their schemes have been a suite.

thirds of probationers while recommend a similar

New body to coordinate London teacher training

Home Camplies Regional Adrisory Cancil, London University's Instipare of Education, Sussex Univer-ar's School of Education and the

They have decided that the need for coordination in teacher educanor contained in teacher entire the calling that for the report of the Oakes completee which is expected in make recommendations about the organization of further and higher

The luck of proper coordination of in-service treining was high-lighted in a recent Department of Education and Science report to the Advisory Committee on the Supply and Training of Teachers. Mr D. T. M. Bennett, director of the Landau RAC said this week: "The alor of the committee will be to fill a version in both initial and inservice training".

'campus

A new committee to coordinate teather training in London and the library powers for this purpose through n DES mentional distribution of training establishments should be handled by regional

The committee will be an interim arganization and will exist for not more than two years, A review of its membership will be undertaken when the Oakes com-pittee reports and there will cer minly be divisions of opinion about

Some furon: the contribution of leacher training under the RAC nubrella and others its complete separation from further education. The new committee will have no additional resources ond will cope additional resources ond will cope unly with immediate problems. These will include a review of initial teacher training in the light of the Government's final decision Advisory Committee on the Supply and Training of Teachers. Mr D. T. M. Bennect, director of the Landan RAC said this week: "The aim of the committee will be to fill a version in both initial and inservice training."

The committee, to be known as the Teacher Ethication Advisory Committee, will review in-service and initial courses offered by public sector institutions.

At the moment both the Area Training Organizations and the RAC make recommendations about teacher education courses to the DES.

Salford discusses Adult council will ask right anti-semitism' A meeting of 300 Salford students

Mr Clarko said loter that he was tessonably confident that the situa-tion could be kept under control. The response to the NUS ottack in solety activities showed that mem-

flure of the publicly-suppor-

questions-minister

A meeting of 300 Salford students on Tuesday has reaffirmed its policy that zionism is racisot. This coupled with the union's policy of out invising racist speckers, last week led to a bent on a meeting organized by Jewish students us part of an isracle week.

An apendence to revoke all the union's policy of local authorities, adult relucation and organized by Jewish students us part of an isracle week.

An apendence to revoke all the union's policy on zionism was defeated by 165 votes to 125 at the last of the National Union of Students, tald students at the needing that the National Union of Students, tald students at the needing that the needing that the needing that the needing that the new connecil would not solve the problems of adult education, activities of compus Jewish and the council hefore it is set up.

The new connecil would not solve the problems of adult education, he said. "What it should be able to do local education supposed restrictions and the council hefore it is set up.

The new connecil would not solve the problems of adult education, he said. "What it should be able to do local education supposed restrictions at the council hefore it is set up.

The new connecil would not solve the problems of adult education, he said. "What it should be able to do local education supposed restrictions and the committees."

An encodence is received and the said in the note in the need of the problems of adult education, and the said. "What it should be able to do local education supposed restrictions at the need of the council here are the note in the said. "What it should be able to do local education supposed restrictions at the need of the council here are the note in the securive which notes "the grave initiative done to AUT members in 1975 when the Gorermont wiltheld cost-of-living increases allowed to all other public service employees."

University teachers in 1975 when the Gorermont whitheld continuing increases allowed to all other public service employees.

University teachers in 1975 when the adult education service and continuing education generally are on a

snund faoting."
Mr Oakes usked suggestions on Mr Oakes asked suggestions on the council to be submitted by been were concerned about untilized by inner 10. The Idea for an advisory found is the matter of the student union. A unified soft the student union. A unified soft the student union. A unified by spokesman said this week still going on and statement would be issued later.

Mr Oakes asked suggestions on the council to be submitted by inner 10. The Idea form an advisory found in the Russoll report (1973) that there should be a Development Council for Adult Education, which, unlike the Advisory Council, would have been still going on an advisory council was proposed in a discussion paper issued by the Department of Education and Science in July last year.

irchaeology units 'threatened y serious lack of funds'

resentatives of the Council for hardiacology sod the Rescue a state archoeological service on thu cheap." It met a barrage of criticism from universitian and musaums, who considered that new units should have been to tell him who for the service on the cheap." It met a barrage of criticism from university departments that new units should have been to tell him who for the service on the cheap."

will tell him the fact that, Professor J. D. Evans, director of biog laid off or one standing brance because there is no money he leader of the branch of the branch of the because the branch of the branch o leadet of the deputation, Pro-Barty Cuntile, Oxford arch-git and chairman of the cono-sid this week that without money Britain would be rob-ice, offective orchaeological

His opinion is widely shared in the universities. The DoE is considered to have built un excessively large stuffs in the regional units

sidered to have neutron surprised that the balance. A network and concentrating on conservities for concentrating on conservities for interests of the independent of the interests of the universities should now be integrated with the conservation and excavation work the field, he said.

In our faces o messive salaries bill.

A Society for Ceribbeon Affoirs has been set up following a recent conference in York of some 70 occurrence in York of s

Sindoni, from North Riding College of Education, Scarborough, parented two bound brooks containing a period to 40,000 signatures, to Mr. Michael Shaw, Conservative MP for Scarborough, at the House of Commons.

The 350 sindonis at the college have been campaigning against the preposal that it should be closed. The campaign is being supported by the North Yorkshire County Cometil,

The argements being put forward by Scarborough include the fact that it is one of the few insti-tions offering an honours degree to fature primary school reachers which has been specifically designed for their professional needs and that it is the only institution which is fully integrated with the Schools Admires Sension

Advisory Service.
Students from Rolle College,
Exmosth, lobbied Parliament yesterday in support of a motion tabled
by Mr Peier Emery, Conservative
MP for Hondion.

The motion asks that Rolle should not be closed and gives five reasons. These are that it is the reasons. These are that it is the only state-mointained college west of Bristol, that it is the second for the post three years it has some second largest employer in East Derun, that it offers courses for teachers in shortage subjects, that it has an Rolle's supporters say that if the country.



and students present the 40,000-signature petition to Mr Michael Shis with Statements present the 100,000-signature petition to Mr Michael Shisw, MP for Scarborough, outside the House of Cammons. The pleture ahows, from loft to right, Miss Liz Joweos, representing first-yeor students, Mr David Robinson, vice-quealdent of the students' union, Mr David Bution, president of the union, Mr Shaw and Mr Kennelli HsH, a college

Students lobby MP over closure

AUT may reject phase three in fight over anomaly

nt Liverpuol ocxt week will consider a notion from the executive which notes "the grave injustice done to AUT members in 1975 when

Three lucul associations—Helford College, Loudon, Asion and Salford—have tabled motions suying that if the one only is not rectified at the beginning of August, university teachers should strike.

Salford also instructs the executive to the contraction of the contraction of the contraction.

Sulford also instructs the executive in put a pay claim to the Department of Education and Science which will restore salories to a level comparable with elvil acrevants. (Thuse of senior administrative stoff, the Edinburgh association suggests, should be an appropriate reference polet.) If the DES fells to come to a satisfactory agreement, lecturers should organize one-day strikes and refuse to mathe exaculaution papers.

tion papers.

Mr Laurie Sapper, general secretary of the AUT, said this week that there were two hurdles: first to ensure that any pay policy provided for the rectifications of anomalies, and second, to ensure

Architects start talks on pay

Stalf and students at the Architec-tural Association's School of Archi-

cludes nine students, has been in racetion only. dispute with Mr Alvin Bovarsky. Under the r Archaeology, said this week that the money spent by the DoE recently might have been hetter used by universities. Together with the museums, thoy provided a much more flexible basis for archaeological work and, besides, were more cost effective than the DoE regional units.

dispute with Mr Alvin Boyarsky, the principal (called chairman), over the renewal of his contract since January. But mass meetings of the school's staif and studenta heve backed Mr Boyarsky.

Annual elections for the concell take place this month. A record 41 candidates are stooding.

Feelure, page 10

The Association of University Teachers is likely to reject a third stage of the pay policy and to coosider strike action, if its pay anomaly is not rectified at the beginning of August.

A full cannel meeting of the AUT

The Association of University Teachers would be money available for this purpose.

No specific figures have yet been worked out, he said, but salarles would need to be increased by epproximately between 15 and 22 per cent to compensate for the loss.

per cent to compensate for the loss. A further pay claim for cost-of-living increases in the last year rould also be made, depending on the pny policy.
A rise of between 15 and 22 per

cent would bring a loclurer's minimum solary from £3,333 to between £3,832 and £4,066; a professor's miniorum salary from £8,106 to between £9,322 and £9,889 and a professor's maximum salary from 19,489 to between £10,912 and £11,577.

the AUT executive has also tabled a motion saying that the inniversity's grant for 1977-78, which is a cash limit, will be insufficient to meet cost-of-living increases.

It must the Secretary of State's assurance that the Government will review the universities' recurrent review the universities' recurrent grant if the "pace of pay and prices increases generally", or if those hous affocing university apending were higher than allowed for, and urges the east lintit he revised to take account of the pay shortful

on If the crosses genorally arous affoeting university approach to take account of the pay shortfull.

The job shortage is likely to be shorted the mojor issue at the council unceting. "With the freezing of muny lectureallps", the Sheffield or ossociation says, "young academics are presented with sppalling prospects, equivalent to redundancy".

Nottingluem association Instructs the executive to explore the possibility of short-term exchange of the University College st Buckingham should not be oligible to enter graduate competition for appointment to the Civil Service.

Mr Charles Morris replied the the reaponsibility for esaessing concademic quelificar.

on summer dole

Mr Ennala, accretary of stato for Staff and students at the Architectural Association's School of Architectural Association's School of Architectural Association's School of Architectural Association of Architectural Associa The 18-strong council, which in ment benefit during the summer

Under the regulations, plonned to start this Docomber, unemployment benefit would not be payable during the Christmas and Easter holiilays to students on full-tinte

They would still be eble to cleim summer unemployment benefit if they satisfied the contribution conditions and were not receiving o

maintenance grant.

The regulations do not cover cloins fur supplementary benefit.

The mojority of atudents who live at homa do not quelly for this in the short vacations become of the student grant property and the student grant cover of the student grant grant

Social work students: 300 extra grants

The Department of Heelth and Social Security is to increase by about 300 the number of graces to graduate students studying for the Certificate of Oualification in Social Work, said Mr Roland Moyle, Minister of State for Health, in a Commons reply. It will cost about £500,000.

Mr Ifor Davies (Gower, Lob) find esked if the minister was satisfied that there were enough grams for such students in view of the increasing and videning responsibilities and demands of his department and out increase in the number of specialized social workers.

Mr Moyle said about 40 oet cent of social field workers were professionally qualified, though the percentage was mark smaller for those in residential and day services. He was unxious to see o greater propertion of qualified staff has in the

was unxious to see o greater propor-tion of qualifical scaff, hot in the present economic circumstances progress must be slower than he would

ment to the Civil Service.

Mr Charles Morris replied thet the reaponsibility for essessing and approving academic quelifications for entry to the Civil Service rested with the Civil Service Commissioners who had discussed the question of recognition with the University Collage at Buckingham.

"It understand", he went on "Inat they have told the college enthorities that it is as yet loo early

euthorities that it is as yet loo early for them to accept any equivolence between the college licence and Kingdom universities or validated by the Council for Nellonal Aco-demic Awards.

"The Commissionera have under-

taken to review their decision in due course, and to do so lo ooy cosa if the college were to be granted e

NEXT WEEK

Clivo Cookson on the problems of medical educotion staff. Peter Wilby on academics' pro-

motion prospects. Teacher reorganization: the south-cust.

City University's arts administration studles.

David Martin geviews Paul Julius Comme FULL EDBRITES Of Society.....

News in brief

New Aston arts

administrator

own ther dues anyone else, even the professors), and I locet my colleagues occasionally, hostily and by accident, so that I have little idea "what is going on ". I em a sort of academic travelling sales man, moving nomadically from the lish pastures of the Bibliothèque Nationale to those of home and teaching, with myself as the only link between these widely separated little "meedows". Cooseguently, I have the feeling that it home there are ulmost no part-time jobs. Anyway, surely it is better for students to be able freely to sterute their time to study. As for philosophic time to study. quently, I have the feeling that it is not I who have travelled to Paris, but the world that has swang through a few hundred miles around my stotiunary self. phy, here he has a point: whotever their other faults, I haven't come their officer family, I haven't contender across quite so much of the morality of the tuppeny noveletta in the essays of my first-year stodents of I do nt home. didly welcome: if there is less of a feeling of "belonging", there is at least as much friendliness and helpfulness. Another symptono: the

Saturday

The students have altoost no societies, and a huge and impersonal institution. Perhaps the political activity is merely a sublimation of their sucial impulses J There To the heoutiful old medievol town of Provins, including a meal that Is no dearer than at home. There is no doubt that it is good being here. For one thing, I care enough to see the countryside and out the see the countrysido and out the

there has been the accasional demonstration against Government spending cuts. The squeeze exists here, too, though there has not been the dual attack on universities that we have had in Britain, by the quasi-deliberate stoking af inflation. We overhear a French business-man commenting on how little Bri-tish workers earn. Indeed yes. At home I have been a professional teacher for 21 years, yet since 1973 I have not been uble to offord clothes for my family, or take them on holiday over ouco a yeor, or my for ropairs to the house. I buy books because I have to, but I can't afford them either. Here there ore im such problems. The British we know here almost all ltish we know here almost all

buck hoose.

It is agreeable too, as a teacher, to obtain 10 per cent off the price of books here and, as a State employee, to get into Government owned chateaux and museums for holf-price. Here, in short, one fools oppructated. At home the brain is increasingly regarded as a poseck's tail: a curious abcriation of evolution, with no visible stryvival value. Could it be the difference botwoon the puritum and the Gallie botwoon the puritun and the Gallie mentality?

The British hove one af the world's flucst university systems, fluost literatrical and musical acanes; it is even possible to find good food. But the mass of the population, in all classes, appear to despise those things. Quolity is not a concept that the British understand. We atestill divided between Arnold'a phillstines and berberlans. listinos and berberlans,

Two first year Interactive classes at Central, from 3.30 to 5 pm and from 6 to 7 m pm. Plenty of emdent, in the later class who have research dept. In the later class who mave to rook all day for a living. I get paid extra for these classes, an excellent thing front one point of view. From another, dangerous: be done?



(os la economics).

Even experts begin to loubts. I have heard it said that some oreas, and notably in cancer research, the oest stoke requires intellectual breakthroughs rather than onssive funding. And I am confident that much research in the social sciences is onything but camulative, and may well yield little more than some sotiafoction, ond perhaps o higher degree, for those who undertulie it.

Much of this scepticism may be n pressing fud, no mora lasting than the earlier enthuslasm. Moreover, it should be quite clear that rosoorch is both o human activity which, as suelt, deserves support in o free society and ane which contributes to keoping a developed society develouing, prosperous, future-oriented.
Even so, there remnins the question
of how seurce resources should be

Inevitohly, at a time whon Governincellonly, at a time whon Government is involved in sa many areos of social life, its agoncles also conduct rescorch. This was not, to be sure, implied by Lord Rothschild's customer-contractor principle; his "contractors" can perfectly well be independent institutes or only or six.

a regrettible one.
Abovo all, research needs detach-

In the evening, we are warmly treated to on excollent dinner end conversation with a poot friend. We talk of the Pronch and British there were the procession of the properties of the Maxwell of the Pronch and British the procession of the process

duntinantly university research, the East European countries with their large and privileged academies of science of the other, and France and Germany somewhere in the middle. What is there to be said for one or the other system—and is there a case for change in Britain?

The idea of universities embadying the unity of teaching and re-search is beautiful onl unreolistic. Wilhelm can Hondolde's theata may have come from in some alepart-orents of philosophy, notably in Berlin. But in most university seminars and classes there was always more teaching than research, and many of those doing research dal little teaching or taught quite different subjects,

It is important to add that English universities, in particular, have maintained a strong tradition of teaching along the lines of medieval colleges, although the London colleges, reducid, universities and some of the recent formulations have introduced new elements. However, the duced new elements. However, the duced new elements. However, the strict principle that every fourher should be a researcher, and vice warsa, and that every class should be a research os well as a reaching experience, has clearly outlived its usefulness in an age of muss tertiary education (if it ever had any usefulness). ulue ss).

The principle has, therefore, heen replaced, in the views of some, by that of the multiversity. While some teach and others do research, or while at any rate the two octivior white at any rate the two occupi-ties ore separated, the university should provide a roof for both. It is sold that teaching profits from the proximity of research; that many scholars feel that mere rescorch oukes theor stole; and that, in ony case, noiversities must be sufficiently generous in their organization to accommodate research institutes os well as undergraduate tenching, graduate schools as well as loterilisciplinary centres, and possibly ereo policy studies.
And, of course, one can plausibly
point to the old ond fautous Americon multiversities (Columbio,
Chicago, und Berkeleyl es exomples
for such courbosiste. for such complexity.

This line of argument has undoubted ottroctions; in theory I would regard it os clearly superio But does it stand up to the test of reality? Does it do this if structured multiplicity is not the result of gradual development but of deliherate design? I am impressed by the difficulties which one seems to appear the content of the seems. encounter if one tries to design

differentiation.

This is of the heart of the debate obaut confurchensive schools; but it is equally true for comprehensive universities. When the included the notion of research centres in the plun for the new university of Constance in Germony, it was immediately feit that these would be "elite" or "privileged" parts af the university. They became the object of any, and today they are about to be illiscontinued on the grounds that, after oil, everybody does research and why should people in the centres not have the same teaching ind as everybody else. If it is true that there is a built-in strain towards similarity in university structures. lidapendont institutes or onlyersities. But it is a fact of life—although
a regrettable one, vithin univarsities, then the theoreti

Abovo all, research needs detachoent from vested interest. Large companies have begun to understand this and hare given their research nud development deportments more freedam. So has governments more freedam. So has government in some respects; I do not suppose that gavernments actually try to influence the forecasts of meteorological stations.

But it is said that it has become most of the play this down but often difficult in the property of the company of the com

batween incritutes of the Max-clauck-Gesellschaft and universities tion, with both sides the worse for

literory scoiles, of jazz, of the claeme. I mentally recall 109 theory about Sattro's Namea, How French 11 is I. The outer world is treated as nonscating because it cained be eaten.

The compensation heve for titose occasional moments of disorgardzation and organization and organizations, the appreciation of parsonal relations, the appreciation of parsonal relations, the appreciation of parsonal relations, the appreciation of the fire relations and organizations. This is a simple principle. The chart question is much more different control to my whether it is desirable on the control to my whether it is desirable on the control to my whether it is desirable on the control to my whether it is desirable on the control to my whether it is desirable on the control to my whether it is desirable on the control to my whether it is desirable on the control to my whether it is appreciated into any organization.

Graham Dunstan Martin

The onther is a lecture in the Prench Department of Edinburgh University, and is spending a year as a manure assistant associet teaching as organization associet teaching and control of the deriling and indications.

However, it is stiking how the feather about the control is limited in different comitties with Butain very academy of sciences.

Universities want sports excellence, minister says

Mr Denis Hawell, Minister of Sport, said to a parliamentury written

Nearly 90 of these were able to offer spous facilities and or coaching and mition of a high standard, he said. Oue centre, Leerls, is already in operation and others are being considered by the Department of the Environment ond the Department of Education and Science.

The Idea of centres of sporting excellence was first mouted in the White Paper Sport and Recreation 1975, which recommended that rolleges should see such centres upto cater for the needs of gifted sportsoico and women, "Society

it is important to ensure that the gional sparts council. It is directed maximum use is made by the com- by Mr Keith Nicholls, a staff coach monity of facilities already avail- of the English Vafleyball Associa-

Student-run campus radio could be

munity stations... covoring the

country, according to the Nicional

Association of Stmleut Broudcast-

ing in its comments on the Annua

The ossociation's idea is for cum-

In the repart of Lord Aonun's

committee on the future of broad-

committee on the future of broad-casting, the suggestion was made that local radio needed n busis in the community and that "nan pro-fit-making institutions should be eblo to own and run local codio stations". The committee gave as examples universities and judy-technics.

pus radio to be extended into the

by David Walker

Campus stations 'could provide basis

the besis of a network of com- medium of lucel radio."

for community radio network'

In become a centre of excellence

five years to complete instead of three.

Leads is the only centre operating at the moment, but many others are under consideration. Although the under consideration. Although the White Paper originally envisaged 211 10 30 centres of sporting excellence, uppears to offer a thorough training spokeaman from the Department of the Environment said this week that there was no limit on the

Companies, soch as Wilkinson's, are offering harsaries to sparished and tenoten. Uffice Cleaning Services Ltd is offering a second sports scholarship at Bath University this October, Su for 13 students

for academic", it suid.

The schalarship enables a student in spend an extra year at the might be used by the local commonly, although the responsibility of the college. "It is wrong if expensive facilities are numberosed. In a period of financial restraint, in porticular,"

The schalarship enables a student in spend an extra year at the signal of the college. "It is wrong if expensive facilities are numberosed. In a period of financial restraint, in porticular,"

The schalarship enables a student as for non-technological graduates were not so uncertain.

Despite the difficulties of gaintants as little as £1,760.

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The schalarship enables a student as for non-technological graduates were not so uncertain.

Despite the difficulties of gaintants as little as £1,760.

Despite the difficulties of gaintants as little as £1,760.

College in Birmiogham 20 classes. In theory about 90 people, if that at the end of the year only as small proportion—2.3 per cent at Southampton ond 4 per cent at the university title prior industries.

The schalarship enables a student of the cherry-trees.

Arts from the begange of the strain on the leasent of the university title prior of the difficulties of gaintants as little as £1,760.

Arts from the prior of the difficulties of gaintants as little as tion and a qualified coach,

hetween university and local com

munity and foster them through the

just pop music. It provides campus and local news and includes mate-

broudcusters.

areus surrounding the 14 existing University student radio, said that

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days in over 17 resorts from the mainland end Athens, to

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the Asgean Islands and Corlu, Crete and Rhodes.

rial not transmitted by usphished

Clarifying the association's com-nects, Mr Dayld Miller of Essex

For the association's plans to work, the campus stations trould

Authority transoltters.

The ossuciotion reminded Lord

Commerce 'will rival industry as main graduate recruiters?

Accommuncy and commerce may soon rival industry as the higgest in the number of julis in industry recruiters of graduates, according 142 per cent from Southampton) and by Frances Gibb

To become a centre of excellence to two university careers services, a college must set up rourses to two university careers services, and colleges wish to set the which allow sportsment a balance this week by Southampton University careers advisory service says the tween academic study and the versity cureers advisory service says graduates manufacted with 27 per cent of Southampton University cureers advisory service says graduates manufacted with 27 per cent of Southampton University cureers advisory service says graduates. up centres of sporting excellence, practice of his sport. A degree that accountancy and commerce cent in 1975,

course oright therefore take four or five years to complete instead of three.

If a decountancy and commerce course course oright therefore take four or guiding jobs, almost three times as mainly for linance trainees and furthere.

Sheffield says that the lew vactorise years ago.

At Sheffield, the "cast majority"

If remen, The Post Office had also drastically reduced the number of its varancies.

cline in the number of scientists and engineers training os teachers, although the total number of gradu a wide spectrum of employment, fession was up on the year hefure, will continue to have a strong At Sheffield the foculty with the

in manustry remains as intense as it has become over the last few years."

Thus siluries for trainee chartered accountmats remain relatively low, the Shelfield report says. The average starting salary for liest playments of the rest final strength of the strength of the rest final strength of the strength of the rest final strength of the streng average starting salary for first degree graduates hist year was many order social scientists would apply for industry if the prospects government receiving as much as f3,230 and trainee chartered accountants as little as £1,760.

This was less than the lawest values of graduates starting in the rest of graduates at the rest of graduates are restricted as the rest of graduates at the restriction of the centre of Paris. I Mit Advian Welch, deports at lating that the lawest of the prospects for the prospects for the opposite research. The curve of Aston University starting in the opposite restriction and the paris for the centre of Paris. I Mit Advian Welch, deports at the Round Hough, and the opposite restriction of Aston University starting in the opposite research. The curve of Aston University starting in the opposite research. The curve of the Round Hough, and the opposite research that I sweet of the starting that the prospects for the prospects for the opposite research. The curve of the Round Hough, and the opposite research that I sweet of the starting that the prospects for the prospects of the control of Aston University starting that the prospects for the prospects for the prospects of the prospects for the prospects of the prospects for the prospects of the prospects of the pro

V-c supports raided student

whose home was raided by the Special Branch.

will continue to have a strong appeal while competition for jobs

special Branch.

Special Branch.

He issued less statement after Mr.
Steven Wright, a postgraduate studying for an MSc in peace and conflict research, was released from police boil.

Mr. Carter said: "f om glod to hear that scarly all the material again." natural to crystallize good relations

from the home of Steven Wright has been returned, that ha charges

hear that nearly all the material again."

seized by Special Branch officers from the hoose of Steven Wright were raken from his home and has been returned, that no charges have been brought.

"Those who work in university of the companion of the context of the



Mr J. Steven Watson (left), principal of St Andrew's University, holds o cheque from the Donish Consumers' Cooperative for the Harold Drever Memorial Project 1977 in memory of the late geo-

tion by students end atnff (pic-tures) to the vilinge of Igdiors-suit in Greenland, which Profes-soc Drever visited enusely for 30 years. The project has found sup-nort from the Dages became Pro-tossor Drever did moth work in Denmark in False interest in Greenland sylliages

It involves o geological expedi-

Courso organizers show as in social solvice, the standard by the Central solvice of the Education and Training is Education and Training is Work says. Drewing oh the emerican

Booklet sets standards

Mr Charles Carter, vice-chancellor they can reasonably ask for sym-of Lancaster Indversity, last week spoke out in support of a stodent of seek access to all evidence rele-

hear that nearly all the material seized by Special Branch officers

Anoun that student radio is not ties cannot expert to be exempted journalist facing charge, under the from the opplication of the law, but Official Secrets Act.

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Villas & Apariments Corfu/Creste 299
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((tavernas)
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Prices Brochure (from enjoy surceived to Middlesse Polytechnic of the polytech

candidates.

a much smaller proportion of population have any contact such civilizing studies us fest myself in favour of that geneers is to offer three base in this case it is the Scotscholarships a yest from the land, more students thun British students who have read and, more conditional offers of place teeth and, more non-hanours electronic engineering course electronic engineering electronic electro Cullescay

Chailer to teach a third-year

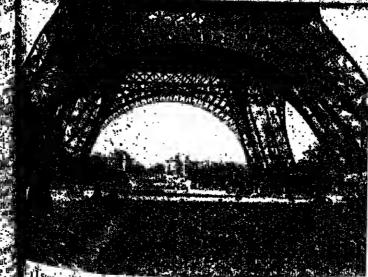
class. The students con opt

this exam or for continuous

Chailer to teach a third-year

A, for which you need document

B; for which you oced C; for
which in turn you need A. Checkmate.



Reading habits study The British Library this wall tass? for with old hadies who lished a new study of the acqueue-jump at the grocer's?) This habits of adults that should be accompetitive country. My five-invaluable to those concessive country in the existing literature induced for the educational seale, of a bibliography with analytey fall more of their university in the existing literature induced for the educational seale, of a bibliography with analytey fall more of their university in the existing literature induced for the educational seale, of a bibliography with analytey fall more of their university in the existing literature induced for the educational seale, thinks adults read and of laking all subjects, more than half in the existing literature induced for they are unselected except by library's research fond, out the interpretation is to promote requestly, their achievement vortices in the books are used. The Reading Hubits of the reeding out during the university of the library. Shernton House, a greeding out during the university of the library is not in two one of their though doubtloss thore or some who is not in two of initial sealers of their chances in the library for 1977/78 and lightness of their chances in the analysis of their chances in the lightness of their chances in the analysis of their chances in the analysis of their chances in the lightness of their chances in the analysis of their chances in the lightness of their chances.

THE DATES HISTAIN GROCATHIA SUPPLEADENT 123.77

Don's diary

8 and to the ombistorey pressure". There are no con-

fixed parking waterist and Latin filling habits. As I am trying in five out of the garoge, one car is frawn up at the petrol printp. Another, seeing me coming, pulls in behind the first, and right icross my path. He thinks: "The

Anglicke is going to queue jump and get petral before me." A wise gecaution, except that I do not

went petcol, and have to get out of my car in explain. Not a flicker of

expression shows as he backs his

where I canceal my car plaints, however; they are perhaps

should be termed "Continuous

n little tougher than some of my

British students. The teacher, too,

his to work harder at bls trla-

tionship with his students. He can-

beard hex. To obtain both coffee

and a sent, one has to cross the

road to a rafe, I miss the romact

None the less, I have been splen-

personal level at which the things in French life go on.

is an contestation at Paris III this year, by the woy, though there has been the uccasional

Censier is an architectural card-

one has at home with students and a colleagues. I have no rount of my in

not rest upon his reputation.

A day spent marking agregation proses, "What on Impractical activity", some people soy, "Whatevaris the point of trunslating litorary French into literary English? To The department of basis to ensure that almost nil who administration reports the accepted will get some kind of increase—366 per cent. Make the paint the French system and peography applications is a be said that many students 48 per cent up, and the years sliting exams they have engineering courses here thanks of possing.

A much smaller proportion of a much smaller proportion of population have any contact.

The department of basis to give everyone a chance, it is the point of trumsmartalitie? To of each into increase—366 per cent the basis to give everyone a chance, in the country where it is spoken."

Onlie true. But the exarcise is still useful. Nothing better reveals the differences between the worlds in which different people live, than the untimishinglity of literary texts, which are language at its most precise end subtle.

The post prives. It includes The post mirrives. It includes a pluote envelope containing all the documents end letters I had just sent to the Social Socurity affice fout days ago—minus one they curd which they claim I did not include. This is the fourth or fifth time they hove seet all this paper beck to me, each time asking for something class. The most nucomfortable espect of France is its humanicasis.

We talk of the Fronch and British literory scones, of jazz, of the claeme. I mentally recall toy theory about Sattro's Nausea. How French it is I. The outer world is treated as neascating because it catnot be eaten.

the Fronch and British thing concealed under the government camputing camp

Ralf Dahrendorf

Along with higher education, pullicly-sponsored research is having a difficult time these days. Partly, research councils and other fond-channelling agencies shore with education, the effects of a changing cution the effects of o changing opproach to public expenditure. Purtly, too, o honeymoon of public and publical enthusiann for research seems to be over; more and orone people point to the slowness of research las in medical research) its frightening ambivalence los in nuclear physics), or its patent inability to solve practicel problems

shout. One aspect is where they should be spent: In universities, separota institutes and centres or government agancles?

ferent countries with Buttain very academy of sciences, which is a second of sciences, which is a second of sciences, which is a second of sciences.

plotter University with effect from Diober 1, 1977.

In J. D. Ellithoria has been awarded the file of protessor of lipid hiology in respect of his post in Westinlister Medical School, London University. Or C. G. Caro has been awarded the file of protessor of physiological mechanics in respect of his post at lungerial College, Lundon University. Mi P. Dixon has been awarded the file of professor of English in respect of his post at Westfield College, London University.

M. P. Washield His been owarded and University. niversity. Hindhelitte has been owanied

f title of professor of andiological edicine in respect of his piet at the siling of Larvagology and Diology. Dr. J. E. Leinhard Jones and augment of the title of professor of gastroenterology is respect of his post at the Loudon Hospital Medical College, Loudon University.

Honoreus skymans

ASIOH

OSC: Rt Hon Roy Jenkins, MP, president of the European Commission; Sir Ronald Melatosh, director-general of the National Economic Development Conneil; Sir Robert Douglas, chairman of Robert M. Douglas Limited; Edward Lowling, consultant advisor in bacteriology to the Birmingham Regional Hospital Bustd and hottoracy director of the Hospital of Infection Research Laboratory.

Longliborough Diltt & R. L. Marshall, principal, Co-

7.40 Alon-mode l'utiros: Ocsigu ent Trethology: Illo Programme: Bos Marine Senso of Seculty: Inflation 10.10.1 (1752: prog. 7) 1.30 (1752: prog. 7)

Saturday May 14

13,20

maningling director of John & E. Sturge Lul of Birmingham, has been awarded the fille of honorary professor of applied chemistry at the University of

Professor J. G. Beerleslune, currently professor J. G. Beenestane, currently professor of chemistry and head of the department of chemistry at the Uni-restry of Ibadan, Nigerla, has been appointed to the recently created chair of science education in the departof science education in the department of education at University College Cardiff. Professor Beetlestone is expected to take up his appointment in October, 1977.

Di Adriao Smith, at present lecturer to statistics at University College London, has been appointed professor of mathematical statistics in the tim-

professor R. E. Waln, professor of agricultural chemistry in the Univer-sity of London and director of an Agricultural Research Council Curr at Wee Cathege, has them awarded the rule and status of honorary professor of chemistry at the University of Kent of Council Curv.

operative College, Stanford, Longis-horough; D. T. Richnell, director-general, Brillsh Library, Reference Division; Protessor R. Escarph, prestitent, Duiversity of Bordeaux D fffech : Sir Peter Masefield, chairman Project Management Lut : Professor / J. F. Carles, emerlins malessor of engligering (control), Cambridge University. MTech: W. E. Bradshaw, lately senior Instructor, Centre for Industrial les, Longithorough University.

Noticeboard is compiled by Patricia Santinelli

Open University programmes May 14 to May 20

Appointments:

Lecturers: F. T. Barrett, C. S. Jones and J. S. L. McComble recommics and rounnerce); S. I. Pogany Hawt. Research assistants: K. G. Hutson Iplant hiology); A. M. Jenkhison (znology). Londan

Titles of reader 3, R. H. Amlerson (paediatric cardiac morphology, Cardio-tharice Institute); C. D. Flim (chem-lea) spectroscopy, Birkbeck College; J. T. Harries (paediatrics, Institute of Child Realth); B. C. Smith throrganic abouters, Blobbock (Alleng). chemistry, Birkbeck College), Southminion

Promotion to reader : It, Hart (cumnerce and accumuling). Titles of reader

 $q_{ij}(p_i) = p_i(p_i)$

Hophysics-114,856 from the SRC for studies on simplified forms of cyto-chrome axidase produced by saccharonyces recevisiae mutants under the

Plant Sciences—£14,945 from the SEC for a project on the blochemistry of egg-sperm recognition in fucoids, under Dr L. V. Evans and Dr L. V. Evans and Dr L. V. Dr L. V. Evans and Dr J. A. Callow; 19,880 from the SRC for projects on the effect of remperature on carbon the effect of perimerature on carbon flow in temperate and tropical C4 species, the relationship of leaf age to the photorespiratory carbon flow in plascolus, under Professor II. W. Woollings (17,100 from the SRC for a project on the blorhemistry of polyphosphate accumulation and metabolism

B. A. Sparkes (classics]; D. J. P. Barker (riloleal ephiculology and continuity medicine). Senior lecturer; D. L. McLellan (neurology). Lecturers; W. Druhkin (music); J. R. Andrews Igeology); M. Shrader (accunography); R. M. Greuves and A. P. K. Meredith Haw); P. G. Caleman (gerlatric social work); H. Gaston (ophihalmology); A. J. Wilson (surgery). (classics) : D. J. P. General Manpower Services Come

Chief officer : I. Severns,

R. A. F. Sherwood has been Research fellows: D. F. Sykes (physics); C. C. Hood (Institute of Social and Economic Research). Research

Granitales notice Prof. . Metallurgy—£10,043 [.: of Detence for an investigation of GRP on the formance of thought 1. C. Scully.

Vellcome altring Laboratory—[1,794] implementary) from the MEPC for an investigation into the extent and causes of natural Humanions in literal populations, under Dr. L. R. Lewis, Psychology—[2,470] (renewal) from theorist, IR, Lid for a half-thme research fellowship (Mr. A. Parroj)), under the direction of Dr. L. Huddarch, Transport, Similies—[79,760] (supplementary) from the SRC for a project Physlatogy-£1,950 from Physidiogy—11,950 from a coline Trinsi for the subset of regular "socially a energise on human kdy, and rubyshologial furnish A. V. Kuildes. Transport Stuffles—179,769 ympole-mentaryl from the SRC for a project of transportation planning under Pro-fessor K. A. Gwilliam , 126,700 from the SRC for a project on simulation of traff, interpretable schools by

Chemical pulhology-Ora SRC for a propert on simulation of research on immediated traffic annuagement schemes under by or cost ogens under by it cost ogens under by it

The Bursars' Association Voluntary Colleges of Edge Chairman: K. J. Heyes (Kig.) Winchesser). Secretary: R. k. [Ripon and York St. John.]

British Council assistant director general of bish Council in successor; Swingler who has been appeared the Behish Council is into institution of Mechanical

Engineers Professor Sir Hugh Fed I. appointed the new presses in carlot to Ewen M Even ale; then.

D. Van Vhet; £15,79 fo2,71, for research luto car sage: asting for discrete state: A. D. Pearman; £3,4,5,4 Department of the Empro-Mod multic analysis park-direction of Protestor 1 & Mechanical engineerings; the SRC for a profuse, support for existing fixed framous, notice persons rhanges in their rewards relative to manual workers. The purchasing power of a bus driver's carnings since the Serand World War has in-

creased by half while a university professor's has decreased by a Sill, anademirs are fairly securely brated in the top of the earnings tree. In 1974 very few aged over 30 earned less than £3,000 n year.

At the same time 70 per cent of taxpayers had personal incomes of less than this. In 1974-75 only 6 per less than this, in 1917 had gross in-cent of all taxpayers had gross in-comes of more than £5,000 o year; these included all professors, readers and loany lecturers.

But a job is not just a solary. Further education teachers now got paid leave for trede union work. Most reclinologists in univorsities of polytechnics do sinue consultancy work at the side. If there are not as many perks for occdenics as for businessmen, there is replaying and, even in these impecuaines days, the chance of trips ebruad. In comparing jobs, it is these unquantifiable fringo benefits that uno most difficult to weigh.

THE TIMES HIGHER EDUCATION SUPPLEMENT 13.5,77

How justified is a

pay grievance?

the saluries of university academics But following the 1974 Houghton

tepart and a large cost of living use in 1975 they have jumped

theid and it is now university lea-turers who gaze jealously on the la salaries paid in the public sec-tor. But how justified are feelings of grievance?

of griceance?

Here is the pay issue in a nutshell. Few would deny than acadenic work is, by and large,
pleasant and secore. But when it
comes to pay what matters is not
the amount but how it compares
with other people's salaries. Uni-

resity lecturers now start on [3,33], and pulytechnic lecturers on over

t3.709-at less until October, hy which time the university teachers

Trade mainus generally compare

nowards. Most academics are better paid than school teachers but con-

carison is made with civil serrants who also have pleasant secure work.

Like other middle class profes-son its academics are myare of

will have made another claim.

For their work academics one paid of a range from £3,333 to £8,000 and the best guide to payments while it is age. Universities may work on a lideratchy of intellectual merit but—except for the leup to the £8,100 professoriel minimum— aga determines reward.

aga determines reward. By coorast, in further education the difference between degree-level and lower work is quantified. In this submission to Houghton, the war and society is a distinction of Tsachers in Technical Market and institutions argued for a course between education of received weighting of one unit for 500 studying a performant and dem hours of Alevel standard work and systems above.

a point of reference for university professors: their scale is £8,550 to £11,100 companed with the professorial overage of £9,500. However, at the beginning of £1075 themselver. Merit-Intellectual or otherwise —is a key to the larger sularies paid to medical academics. A ronge of additional payments increoses at the beginning of 1975 there were only 1,200 civil servoots of this rank in past compared with 3,300 prothe bosic lecturer range by about 6 per cent. Consultonts on profes-sorial scales attract vorious addi-

Sample of annual earnings in 1976

Prolessor £9,280

Airine pilol £11.346

Train driver £3,640

Principal in Whilehall (max) \$7,762

Doctor (general practitioner) £8,566

Principal scientific officer (max) £7,517

Graduale schoolleacher, 18 years' service £3,798

Assistant heeper, first class, national museum £7,885

Clinical senior lecturer (max) £0,683

Solicitor, live years' experience £7,000

Assistant secretary in Whitehnil £9,825

University reader (max) £7,951

Accountant, aged 30 £3,850

Farm workar £2,330

As the Houghton inquiry into teachers' pay showed, the question of university and polytechnic rewards is one of the most ticklish. The ATTI—now merged into the Notional Association of Teachers in Further and Higher Education—presented o well argued cose to Houghton that was by and large accepted. It lockleded a comporison of further education sculor lecturers ond university lecturers showing a shortfall of nearly £700 to the disedvantage of the polytechnics. The polytechnic principal lecturer and the unitional payments, sometimes doub-ling their solories up to £16,000 and £17,000 a year, excluding earnings Vice-choncellors, occording to the Association of University Tenchers, no paid in the region of £13,000 depending roughly on the size of the university. They elso enjoy a runge of fringe benefits, notably

[bar] 6,729

(bar] 7,890

7,707-6,913

a horse and use of a university con. With whom are ocodemics comporable? The rogistrar-general puts them in his first rank along with professional onen, clergy and lew-yers, e step sheed of the "intermediate accupations" of school accupations accupations accupations. rersity senior be nver £1,000 adrift. teaching, government sorvice and farming. The AUT has singled out

University

3,333-0.855

6,443-7,951

8,108 (min) 9,489 (max)

* These seales eliract en increese ol £130-£180 a yeer luom April 1si, 1977,

Comparison with lecturers in lurther education :-

student hours of advanced work.

rom private practice.

[compereble grades]

Leclurer grade 2/senio

gredes 5, 6

compored with one unit for 300 assistant secreturies in Whiteholl as the history of the 1975 pay nego-

The unofficial NATFHE view is that it is o game of swings and roundobouts. The Houghton report round obouts. The Houghton report stated that comparable work in the universities and further education ought be paid equivalent subvies. NATFHE considers that since then this confusion has orison because of differences in the starting dutes of settlements and the Guyernment's various pay policies. But university and pulytechnic teachers are reworded differently: n third of university teachers earn more university teachers earn more an £6,400 compered with about o than £6,400 compered with about o fith of polytechnic teachers. The contentious points are the reintions helwery younger lecturers to the two sectors.

How do acedemics compare with of principal lecturer and the unilecturer were held to

That illapurity wes romedicd by Houghton in December, 1974, but

[comparebla gredeal

Administration lielnes to

Senior selentific officer to principal selentific

Senior priaelpei (admic) Prolessor

Senior principal egisnilio

principel Senior lectures

niker professionals? A 1976 sur David Walker looks at pay in rey of salaries gare a miversity professor an average salary £2,000 less than no alrine pilm, £700 more the second article of our illan a general practitioner, and L2,000 more than a solicitor with four-part series on lire years in private practice. Talling ante skill, the Institute of Physics found last year that the median income level of all physicists in central povernment was 16,000, 1330 less than in universities and 11000 personal properties. academic career prospects versities and 11.000 more than

> Comparison with other educatime sectors is telling. A graduate schooling-fer left veir was eitning C3800 a year. Sixth form tearlier would be earning between C4,000 and C5,000 and headteniners up 10 (9,000).

University and polyrechnic teachers share the same soil of pension arguments with many public servings. Their last year's salary on the "beat" of their pan few years is undivided by their number of years' acroice and divided years' is multiplied by their number of years' service and divided by 80 fibis being one of those magic actuarial figores used in public service pensions). This Is their annual pension, influioup princed and with on additional lump sum. A further education teacher ending his career on £7,000 would retire with £3,500 o year plus a lump sum of £10,500 after 40 years. Like other public servants pensions.

Like officer public servants, oca-demits enjoy an additional payment for living in the London orea. University machers get £450 e year the distinct of the 1975 pay negonal factory of the 1975 pay negonal factory of the university teachers left the acodemics contributed for the end of the year that they were now suffering a comparative distinct distinct and the promised cost of living increase was cought by the nay freeze and they only received f312.

The muefficial NATFHE way to solution.

Acodemice' incomes hove elipped hellard in recent years, but ao more than other professionals. There each little egitation within the academic profession about comperisons with doctors, lawyers or business executives of even longer term comparisons with manual workers, instead comparisons are made either within the particular circumstances of the post-Honghion aattiement or with academics' near

servents.
The growth of public spending on The growth of public spending on oducation and administration have created a gignitic paradox of social policy. Public servants of various kinds, university teechers, polytechnic teechers, civil servants, bid un thoir rewords using the others as e boso line, locking the cast of the sorvices they provide into an unbreakeble circle.

Unbrookable, that is, unless one group gets singled nut and thu gavernment—as the AUT anys it did in 1975—says no to e rise. The AUT, still smarting, has mode the restoration of differentially the cornerstone of its pay demands.

So far it has tempored its de-

So for it has tempored its demands under the first two steges of the social contract. The summer will see whether n third phoea is going to be universally accepted. If not, the AUT has mede it clear it wants to be in those at the kill.

After false 0.00 Environmental Come in Region 2 Inches Environmental Come in Region and Arrest Cessing and Arrest Come

Part from Oxford and Cambridge, the Open University Is probably the Ministry bast-known accedemic institution in the United States. Almost a state of the United States. Almost a pontraditional study, or educational talerism is complete without a American often talk about the need the Something stalk about the need

The conference heard a perticular to the conference heard and support to the conference heard and the conference heard an

to begin broadcasting Open University programmes end bundisds of colleges are now expressing their

Interest, the Open University has just held its first full conference in America, sponsored by the British Council and held it lies British Council and held in lies of Interest, the Open University has just held its first full conference

developments in this country, and his keen interest in edult learning is of ohvious consequence for the Open University's United States courses demanded too much ell at ones. The large blocks of credit hours were therefore broken into smoller unita, and the university devised n pre-foundation course lu-arts which blought first-year alu-dents up to the level of the Open University foundation course.

3,333-8,655

6.443-7,951

University Civil Service

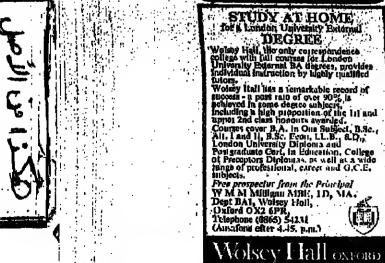
. 2,707-7,762

4,497-7,517

8,850-11,000

8,650-9,798

discussions with the Depertment of Health, Education and Welfare on a variety of short courses it might be able to offer.



Alay 14 to May 20

Alay 14 to May 20

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neurally treated domestic towls, under

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Wednesday May 18

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STUDY AT HOME for a London University Enternal DEGREE Welsey Hall, the only correspondence college with full courses for London University External BA discress, provides individual instruction by highly qualified futors.

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Aprendiced ACC Memory Bill 1 14 ander 124

committee responsible fur the the figures.

orines: Of this alleged than the report was prematurely distributed to the University Grancs Committee and noiversity vice-chancellors without pro-per consultation in the field. This per sity vice-chancellors without proper consultation in the field. This is not so. The committee was emporated when it was consultating and depressing. purvered, when it was set up at n conference of reachers in Scundi-merium at Abertheen in 1975, in report to the ambucities engerned after the individual departments of Scandinavian studies had been con-

This consultation took place by a draft of the report being sent to the departments in December 1976 with a request for their comments; unfortunately, owing to a lapse in the distribution of the draft, one department did not receive it. It was part of the committee's manwas part of the committee's mandate at Aberdeen to prepare the report and submit it to the amborities as soon as possible, since it was feared that at individual universities posis might he allowed to lapse (as had already happened)

lapse (as had already happened) without any reference to the simuation nationally of the subject.

A major objective of the report is to provide a national plan for the future of Scaudinavian studies in Britain which it is hoped will commend itself to the nuthorities and to the universities concerned.

You stote that "delegates voted by a substantal ntajority against the mare controversial proposels". This is incorrect. When a vote wes the mure controvereial proposels". This is incorrect. When a voto wes teken at the concluding session of the debate on the report on whether certain of the committee's recommendations should be deleted—thosa conceroing our centre in Scotland, the ollication of resources to those universities which had shown greatest resourcefulness and vitality, and more vivorus recruitment. ity, and more vigorous recruitment of British scholars to the posts evailof British scholars to the posts evailoble—12 delegates voted for
deletion, four for their retention,
with 21 abstentions. Put in mother
way only 12 delegates of the 37
present et the time votad egainst
the report es it stands.

It is micleading to say that the
committee's proposale would involve
the "closure of two Scandinevian

connultee's proposale would involve the "closure of two Sendinevian studies departments at Sentish universities". In Scotland Norwegian is tenght et Glasguw, Old Norse of Edinburgh, and Swedish end come Norwegian at Abordeen. The proposal for one centre in Scotland elmply envisages the bringing together of these (isolated) units into one, more viable, department of Scondinavian studies.

The committee's remarks on the

The committee's remarks on the more vigorous recruitment of British-born scholars to the teaching posts evaluable were not roncoived in any spirit of xemphobia. The committee felt that British graduates should have a reesonable chance of bolng appointed to the few and infrequent vecencies that occur.

occur.

Exporience in the past has shown that, if one is so determined, it is usually possible to recruit staff from Scandinevie who, because of from Scandinevie who, because of the flying start they have had are batter qualified on paper than their British counterparts. Nevertheless, it is at least arguable that in understanding the patterns of incountry of a foreign culture, the outside observer of that culture is at an advantage.

Having myself worked as assistant in a department of Scandinavian studies in this country, I have come across these notions before, but to discover that they

First it is of course ridiculate to include the assistants or lectors m any calculations of the propor-tion of unives teaching Scandi-novian studies at British universities, since these assistants are recruited, in their home countries, hecause they are native speakers of a Scandinarian language and regarded as particularly well suited

try. I was untitzed and increduling when I first encountered this atti-

appears to exclude you from any future job opportunities in the field

ilepartments of Scanlinavian stu-dies, whose position is compara-tively work already, should further

this form of narrow-minded infighting.

The Scandinavion countries, enoughering in the Nordic Council, ere acutely awaro of the importance of promoting the feething of Scendinevian languages ebroed and ore plenning en expension of support and resources for this purpose, but I doubt if the insular British attitude could in any way be seen as furthoring the ceuse of Scendinevian studies from a Nordic point of view.

rether crucial agencies: a helimic of "ideological" discourse through out hietory.

With the Scendioevian countries and their languages still remeining lergely unknown in Great Britain, it seems to mo that e strategy elong the liues auggested in the report, alming at "rationelization", "concentration", end "economies" generally can only epell disaster for Scandinavien studies in this country. The present situation must be try. The present situation must be improved instead of being aflowed Small is truly beautiful in prived instead of being aflowed to describe still further, and this can only be done if all available enthusiasm for the womferfully sensitive and delicate plees of Messrs other to maintain and preferably, Abbs and Carey, entitled Smell end dinavian studies throughout Great Britely.

Britely.

Sir.—Pleose allow me to express my entitled sensitive and delicate plees of Messrs. Abbs and Carey, entitled Smell end dinavian studies throughout Great As someone who has been incared.

Academic standards at the OU

Caroline Cox, ultour which there is more than a whilf of old-fashianed Red-batting as well. In the circumstances I think the OU deserves a rather more robust defence than you seem propared to offer. The vice-chancellor's remarks we

may ignore, since they are admittedly based only on "slight experience". I can only say that in the fields with which I have some acquaintance, the DU stuff who produce the courses are manifestly quite as distinguished as the staff of any other university in the country; and in my own teaching I have been glad in make use of some of the books they have produced—for example, for the Age of Revolutions course.

so much conventional teaching in higher education.

when I first encountered this attitude and was told that qualified Sendinavians like myself were in fact depriving British graduates of their jobs.

It is most frustrating to find that being a native speaker of a Scandinavian language, once an obvious advontage and, in my case, a preceditist for my job in Great Britain, gradually turns into a disadvantaga to the extent that it even expectants to exclude you from any further last excellence in the various between the various before the extent that it even expectants to exclude you from any further last excellence in the various between the various before the various between the various before the various social and cultural studies are normally divisled.

Quite clearly the Open I meets this criterion, and I mo reason to be ashomed mayed in the Marxist bino reason mally divided.

speciars to exclude you from any futura job opportunities in the field of Scandiaevian etudios in this country. It seems to me obvious that the applicant who has the hest qualifications should be appointed, who over his or her notionality.

Native speakers tend to be appreciated in other modern language departments, and it is tragic that the idepartments of Scandianvian studies, whose position is comparated.

Are we really expected to believe.

like you, we wish to ensure that the person of the importance of promoting the leeching of Scendine illnewian languages ebroed and ore plenning en expension of support and resources for this purpose, but I doubt if tha Insular Bridsh attitude could in any way be seen as further interests of supports and resources of Scendine.

University itself.

Are we really expected to believe that Professor Gould and Mrs Crax into the person liferation of pure ubjectivity and pulliciol neutrality? The question has only to be asked to be enswered. Professor Gould's onti-Marxlet, anti-Leftist bias has long been ovident in his bonk reviews and erilcles. Mrs Cox is joint author of Rape of Reuson, a sultably sensational litlo for ohighly tendentinus eccount of the troubles et North London Polytechalle.

We feel somewhat unxions therefore unlow those who would exercise this necessary control, but also this necessary control, but also those who would select these controllers.

We are also disturbed to find your plee for objectivity concled in linguistic forms concealing such rether crucial agencies: a hellmark

Sic,—Your correspondent's article on the report of the intermirrorabiles Coundities on Scandinavian studies in article of Scandinavian studies in article of Scandinavian studies in article of Scandinavian studies in the importance of reserving the impo may be rather more difficult to spot just because it chimes in so nicely with conventional ideas in these fields.

Students, including Open University students are not gullible ur naive as Professor Goodd and others apparently believe. It thes not take most of them body or realize that un teacher or course is, or can be, simply the transmitter of plain, indisputable, unmediated Truth. They very soon recognize the different hiases, or ideologies, of their reach-ers, and form their own judgments accordingly.

To expect ony teacher to reach for the Age of Revolutions course.

I would olso add that the willingmess of the OU in the fields of calible recipe for buredom among ture and history to disregard the conventional "subject" boundaries, bringing together history, cultured and social studies in a way which used to be characteristic of the study of classics, strikes me as minimable.

More serious, however, is the general objection to natives holding permanent posts in the departments of Scandinsvim stadies in this countries.

To the Age of Revolutions course.

I would olso add that the willingmes is to demand the impossible; and even if such neutrality were attainable, it would be an instable to be characteristic of the study of classics, strikes me as minimable. It is a standing rebuke to the market of viewpoiners, biases and variety of viewpoiners, biases and ideologies, and that students of Scandinsvim stadies in this court without personal or policical "bias" is to demand the imposs-

Quite clearly the Open University meets this criterion, and they have no reason to be ashomed or dismayed at the Marxist bius (if it exists) of samo of their courses in county units. Indeed it would be an organization whose like intelloctual disgrace if such a view-point dld aut find expression with their range of work.

like you, we wish to ensure that

rether crucial agencies: a hellmark of "ideological" diecnursa through-out hietory.

Bristol University. Ideally only deaf-mutes from the Indian sub-continent would he employed es they would blend sliently with the realfol sepia of the decor.
Nobody would apask above a nurentle indian neture.

I egree ebout smell numbers, and advocate e one-to-one steff-student.

asp expand—me teaching of Second Words shreadly.

Ronald POPPERWELL Stamples, please

Examples, please

Sir.—Dooold G. MacRae describor of Firlds. April 22 pe paper by myself and Borry Bornee in Schooling and Copitalism es "usgary littlen" aspy where this (highly (although his eyntax here is opaque) there it is not "serious" it tone.

If le, I think, traditional to support the recent allegatione with an smooth appears for second by Professor MacRae, who is supported by Professor MacR

This is an implication their he rejected with derision by the part-time staff who) come into contact with nude may be isolated from the as out from the real world p of the concepts placed being The second ossumonion;

come kind of external eggs to for National Academy a the Open University heavy that course from outsized would be very using teams. But speaking who tought for seven and CNAA institution my make a rigorous assessment. " rigorous assessment" # be

Yours faithfully,

Senior conusellor,

ORMOND SIMPSON.

The Open University.

Sir,-Ruger Fowler's eath

lettre (THES, April 291 tok

like the work of a parodis,

haps a rather crude agent

tenr, than that of e serious of OII Marxism, the state significance of which (by it

he clearly ocknowledges. Where he lets oven his or

dayn is where he characterist ulucly exploratory and critical ching are un attempt "to conference

student by reporting control

theories "-surely the more charge that an ecsdemic could and still expect to b

seriously. Yours falthfully,

IAN HAMNETT.

Department of Sociology

Tou often the CNAA is have as its sale oblered to ance of academic uses the academic uses to academic uses the academic uses efdom with contest It little encouragement wie indeed often the CNAA see

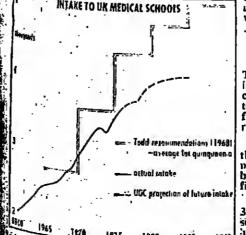
organization whose life innovation is the equitable bringing back the man with flag in front of the succession As for Professor Free ment that the Open United

" laudalile ottempt a u Workers' Educational As cation.

The commission's final rounce (1968) set a latake target of at least 5,000 livitish medical students a year by 1990. The graph shows the average intoke envisaged for five-year periods from 1965-70 to 1985-911 fallowing for 120 overseas undergraduotes annually).

The Tarket productions are applied above. it is a sad comment on the feelings of insecutive

Two years ago, only o hamiful of people while medical oducation or the health service were even considering the possibility that Britoin might be training ton many ductors. Public debate on the issue was started in 1976 by the junior haspitud dators who would have most to lose from a samplus—and



UCCA APPLICANTS TO UK MIDICAL SCHOOLS FOR INDICE than a decade the general assumption that Britain needs more doctors has kept medical schools in a relatively privileged position in higher education. In the first part of an investigation

Doctors disagree about harm from growth

into medical education, Clive Cookson explains why this attitude is coming under attack.

1967 1970 1971 1972 1973 1974 1975 1976 1977

By the mid-1990s the profession was necoming alarmed at the prospect of a surplus of dectors, and the William Committee responded in 1957 by advising a III per cent cut in medical school intake. The result was a drop in the output of British medical graduates to only 1,500 in 1964. By then the effects of substantial emigrathy, were living foll and ates to only 1,500 in 1964. By then the effects of substantial emigration were being felt and opinion was swinging empirity back in the apposite direction, and in 1966 Lard Touk's Royal Commission produced an interim report orging immediate expansion of medical edu-

The Todd projections were revised downwards in 1970 when the Denartment of Health said Sacial Security and the Haiversity Grants Committee fixed a specific intale flower for every year of the decade, up to 4,100 in 1971.

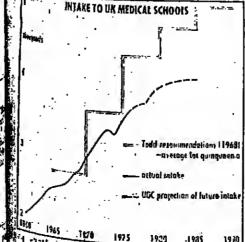
The public spending cuts of the past four years have put the programme health schedule and the 4,100 target is now affirially expected to be reached "sumetime in the lealth service.

The second most important unknown in the mannower equation is probably the effect of medical planned. Currom IGC/IMISS intakes projections are chown in the graph.

Two years ago, only a hamiful of people while medical oducation or the health service is and for those who wish to can back medical oducation or the health service.

in 1976 by the junior hospital ductors who would have most to loso from a similar—and most to gala, in terms of hidastrial bargain—in january the Britlah Medical Association's Hospital Junior Staffs Committee produced o teport urging en immediete ent of 1,000 a year ment. The BMA assombly in March showed the sentiacents of the profession, or all the sentiacents of the profession, or all many behind the juniors.

Emotional specches raised the epectre of tensors on the dole and the DHSS was a rared to weaken the property was proposed.



Calls for an end to the expansion of medical schools and eveo for a savoge cut in their intakes have been gathering force rupidly this year. They are now beginning to drown the gratobles of consultants in peripheral hospitals which ore still finding it almost impossible to attract properly qualified young doctors for many junior posts.

The medical profession's change of heart, to years after Lard Todd's Rayal Commission of Aledical Education hatched ambitious plans to double Britain's ontput of doctors, comes exactly on one. For the country has switched ophinon about whether it is producing ton few or too many doctors every decade since tho war with remarkable regularity.

The cycle has been mirrured by the reports of the official committees set up to transider medical ananpower needs. In the mid-1940s, when medical schools were udmitting about 1,250-undergradoates a year, the Gondenough Committee suggested an intake target of 2,500.

By the mid-1950s the profession was becoming alarned at the prospect of a surplus of dectors, and the Wilbuk Committee responded in 1957 by advising a III per cert cut in medical school intake. The reports in medical school intake. The reports of dectors, and the Wilbuk Committee responded in 1957 by advising a III per cert cut in medical school intake. The reports of dectors, and the Wilbuk Committee responded in 1957 by advising a III per cert cut in medical school intake. The reports of dectors are well aware of what has happened to the teaching profession in the anal doctors are well aware of what has happened to the teaching profession of mills we have the eaching profession of all medical school intake. The reports of the college said the prospect of a surplus of dectors, and the Wilbuk Committee responded in planning are considered to the teaching profession in the anal doctors are well aware of what has happened to the teaching profession of all services are successed. The strict is the prospect of the college said the content of an interior representation of an interior

Perhaps the most erucial question of ull

niver recommendations rested on the assumption that rising maintail income would allow an annual increase of at least 1.3 per cent in the number of doctors per out of population for the rest of the century and the DHSS and HGC are still helicred to be contained as a simple of the century and the century and the trips of the century and the century and the trips of the century and the century and the century are considered to the century and the century are century are century and the century are century and the century are century and the century are century are century and the century are century and the century are century are century and the century are century are century and the century are century are century and the century are century at the century are century and the century are century are century at the c

medical education.
The latter emohasize that the problem

must be exentined in its worldwide context. Tremendous international investment in medi-Tremendous international investment in medicul education is about a flood the globe with surplus doctors, they soy. Unemployment is already being felt in one or two Common Market 'countries—and there is one free movement of doctors within the European Community. Opportunities for practice in the United States and the rest of the English-speaking world heve almost dried up, leaving the Middle East os the only area still wide open. On the other hand, the DHSS, UGC and



Perhaps the most erucial question of all is whether the country will be able for willing) to pay for the continued expansion of the health service. The BMA evidence to the Royal Commission showed that just by changing an assumed 2 per cent annual growth rate in NHS jabs to one of all growth, and holding all other factors constant, an estimated requirement of 4,300 new doctors in 1985 is cut to 2,570. Other estimates have put the annual medical school natural needed if the country cannot afford more doctors below 2,000.

The Tuddl Commission's long-term mannature recommendations rested on the factors of 1,420 (36 per cent).

As the dependence on immigrant doctors is

As the dependence on immigrant doctors is reduced, the grave deficiencies of British's medical career structure are being exposed. It has already publicly been celled "absurd" by senior DHSS afficials, and the profession is disonchanted with the profession. is disonchanted with it too.

The system sits on what one nuthority on The system sits on what one nathority of medleal manpriver. Professor [amus Parkhonso of the University Hospital of South Manchester, calls "a lorge cushion of relatively uncommitted juntor staff". They ore the overseas doctors who fill more than half our hospital training pasts, do much of the work, and then conveniently leave the cauntry without competing for the plum consultant posts (or, if they stay, they are persuaded into the less popular "shortage specialities" like gerlatrics).

As the cushion empties, leaving e haspital

As the cushion empties, leaving e haspltol service staffed by ductors with firm career ombitions in this country, the number of consultant jubs will be much too small to soak up the flow into the junior posts from medical schools. An obvious solution, the creation of a new "specialist" cursor rate medient schools. An obvious solution, the creation of a new "specialist" cureer grade like that found in most other countries (with a pay acule between senior registror and consultant), hos so far been rejected by the majority—perhaps because of the unfortunoto "sub-consultant" lebel sometimee attached

the nature of the consultant's feb—If he hes fewer junior hands to help him, he may heve to do more routine work himself. DHSS officials say they are now ready to renegorists the career structure, but they do not feel that the profession has yet made up its mind what it wants.

Another uncertainty of manpower planning is the future number of women doctors and the another to do. The

Is the future nomber of women doctors and the amount of work drey will want to do. The percentage of female entrants to UK medical schools have risen from 23 during the mid 1960s to 35 hist year (when only 30 per composition that the proportion will increase assume that the proportion will increase steadily to 50 per tent.

It is also frequently assumed that the average newly qualified woman dortor will contribute only 61 per cent of a full-time medical career. But this is based on out-of-date surveys, and there is some reason to believe that the proportion may be greater in future.

The average male doctor, not to believe that the proportion may be greater in future.

The average male doctor, not to other hand, is libely to do less work in the future, Everyone expects the medical retirement, and to come down, and doctors may become less willing to put up with heavy workloads.

Long-term planning has to take account of demographic changes. The Todd recommendations were based on a serious overestimate of population growth, and it is now certain that there will be fewer patients than predicted for the rest of dio century, though demogrophers predict that the 12-year slide in the birth rate will soon be reversed.

The requirement for doctors is not going to be reduced to the seme extent, because the elderly, whose need for madical care is greatest, will constitute a higher proportion of the population. (Unfortunately gerietrics continues to be an unpupular choice with medical students.)

Returning to the present, it is class that medical schools are being thrust back into the heat of medicapolitics, after a few cool years Iu the shadows. Charges of self interest are already flying; some medical professors add deans are telking angrily about the milliant selfishness of the funfor doctore, and the same eccusation is made in reverso. It shad recept that the Medical Journal editorial professors working in medical schools committed to expansion: "Their long promised new hospitals, new medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools, new staff, all denend a conflict of medical schools confl majority—pernaps because of the unior table of the dole and the DHSS was the dependence of the NHS on fireigners, because the negotiation poairion, the dole and the DHSS was the dependence of the NHS on fireigners, because the negotiation poairion, the second deliberately encouraging a sorplus the dole and the DHSS was the dependence of the NHS on fireigners, and the shadows. Charges of self law of the the expansion is processed of the processed

Very best continue to queue up for admittance

Three years ago, when The THES published its last major investigation into medical education, medical eschools were preoccupied by the problem of salecting students out of the floud of eagor and well quellified applications riving rapidly round them.

The crush has eosed e little since then, est the chart shows: UCCA medical upplications peoked et 13,003 for entrance in 1974 and fell back to 12,015 in 1976. The provisional 1977 figuro is 12,120.

The inumber of places available rose from 3,300 in 1974 to 3,735 (provisions) in 1977, so the proportion of successful condidates in the content of the proportion of successful condidates in the content of the proportion of successful condidates with the best of the proportion of successful condidates with the best of the proportion of successful condidates and adopt more applications and



that Boyarsky's continuacem,

that Boyarsky's continuace in consists of the school but mandated he particles, the school but mandated he particles with the chairmon to exterms of o cey control, who could then be put to the ment of the particles with the put to the ment in a virtually impregnable post in a virtually impregnable from the conscilic firmation of the renexal of his interest.

firmation at the renewal of high tract before the terms were sent. This was less ambitious that might seem for it was precisely the had received during the matter reas size.

There the matter reas size.

There the matter rests will two sides deadlocked. The tr

two sides deadlocked. The trust of this mouth's council election with the referendent asks members whether they slidyursky to stay and, if so, the terms of his contract sheet,—will ninust certainly determine chaironan's future and, significantly school's.

the school's.
Time is running out for the

The is running out to be Tho school has had substituted cits over the last few years adversered are only £50,000. Te:

ficulty for members h b le

which way to turn Bogs apparent ambilion to turn by into an international, noted

design school—a fort of hard, Banhaus—is as fraugh rate, tainties as the council's fast

there are two other cree ... First, there is the role day

fessional membership. Ethas been declining as there-ship fees have risen. Add

offentbers believe that Book!" offented the school to effet

lications of the AA's notes.

The second Issue concerns school's educational role has growing concern among administrational technical competencebig

Behind the iomedianna

Row over principal threatens future of architects' school

Peter Wilby unravels the controversy surrounding the man who heads the Architectural Association's school

The prioripal's contract, due in expire in September, still hos not been renewed. The governing council wants to get rld of him.

Student representatives, who won a heavy majority in elections last year, have comput of the conneil. Yet the school's students and staff are now backing the principal by a majority of about two to one. We are the board of directors, says the student-dominated council, and the principal is answerable to us. We ore the people, says the school community, and you are like a local cooncil than is tearing down our boutes without consulting us.

This extraordinary, neurouse confrontation is the result of a year of hitter quarrels at the Architectural Association School of Architecture in Bedford Square, London. This manth, with elections for a new cauncil and a referentiant on the future of the principal (who is the future of the principal (who is called "choirman"), the crisis reachas its climax.

The AA is the oldest, higgest and strangest of Britain's 39 schools and strangest of Britain's 39 scanola of architecture. A private institution, it was founded in 1847 at the Lyon's Inn Holl in the Strand by a pack of troublescote students. There is no constitutional distinction between the ossociation, with its 3,500 members in professional practice, and its 500 students—who are members simply in full-time study.

The school has always had something of the etha of a club, with the students and the professional members mixing frealy in the bors lectures and workshops. The proportion that it is a specific to the course of its fire-year and ergraduate course at the tail.

The school file is a school of workshops. The proportion has risen from 50 per renr.

The school of which the students was the tail. of which, the student may receive either the AA's own diploma or a professional qualification, or both—is the intermediate school, covoring years two and three.

can pick wherever studies and projects they want.

The notice in the prospectus from Unit 3 gives the charactecistic fluvour? We are inoking for 12 really embasications fluvour? "We are inoking for 12 really enthusiosite students who would like to work with us (the four staff) and with apch other essentially a design unit, with no design prejudices;

"There will be no 'Unit Style', no 'Unit Attitudes' and, particularly, no 'Unit Philasophy'. The intention is to allow the students sufficient space to develop their own. 'Howevor, wo may suggest an

own. However, we may suggest an approach—or several." And Unit 4 onnounces that it "will be working towords an appreciation of style, flair, wender and in buildings.

. . In short, towards an old frime architecture."

arrhitecture".
Alvin Boyarsky, the chairman. Alvin Boyarsky, the chairman, classis that, at the end of this eclective education, AA grathores will be different from those of other achools. First, "they won't have a blank expression in their eyes when ideas about the environment are expressed." Second they will have a greater awareness of design. Third, they will be more motive as professional dipartors, because they are used to making

For the last decado, the survival of the school has been in constant doubt. Seven years ago, worvied hy rising costs and the explry of its Bedford Square leose, the school was about to morge with Imperial College. The pirms were dropped infter a revolt by the stuff aild students.

Fr

In . 1971, Canodian born Mr Boyarsky, former Professor of Arobitecture at the Chicego Circle Campus, University of Illinois, was oppointed chairman. A men of inimense anergy and drive, Boyarsky

ing to how you look at h-prouses either intense admiration or intense dislike. In 1971 during the negotiation of the chairman's first contract, John Smith, then president told Buyarsky that he had wisdom, insight, sympathy and understand-ing, plus extruordinary charismo, But ha was also worried that Boyersky saw himself as an auto-

Boynrsky's tenure of office, however, has been marked by a series of incidents, many of them trivial, that must have confirmed John Smith's femra. For example, he opposed a stuff move to form a brunch of the Association for Scientific, Trebnical and Managerial Stuffe.

Bin the school's present proubles ore mainly financial. In 1972, the Department of Education and Science withdrew the AA from the mudulory grants list. Honce, new simulatory grants list. Honce, new students were no longer certain of getting either maintenance grants or fees from their local authorities. The problem has become more acuto in the last two years; local nuthorities have cut discretionary grants and die AA, after freezing its fees for four years, hos now put them up in £1,125.

The result has been a substantial full in the school's total student numbers—from more than 600 in 1973-74 to fewer thun 500 this year, 1973-74 to fewer than 500 this year, and further contraction scenalitely. Twenty three local authorities, including hiner Landon and nine other Landon horoughs, as well as the Scottlsh and Northern Ireland admention departments, refuse all grants to AA students.

So, increosingly, the AA depends on self-supporting students, pur-ticularly from overseas. The pruportion of sindents on local authority grants has fallen from 45 per cent in 1974 to an estimated 32 per cont. The proportion of oversoos students The proportion of oversoon students has risen from 37 per cent to nearly

The school might nor have sur-triced but for Boyorsky's policy of tylgorous oversess pramotion and recruitment. But concern whom Boyarsky'a style of government and At this staga, students hove a virtuoily unrestricted choice of different workshop units where they can pick wherever studies and projects they want. student union. Its nlm was shaply to got students elected to the council oud lis pintform was uncquiro-cally mui-Boyorsky. But the precise thrust of its criticisms has not always boch elear.



thioners—were sufficiently sollsfied by the credentials of the alue student representatives to elect them to the council. Only Sir Denys Losdom beat them in the poll. They are joined on the council by eight unopposed naturalness—oil professional mesked the members of the school and missingly staff who should to lose ther, "is that Alvin light established. Naturally and the members of the school are feiver services for making the members of the school are feiver services for making the members of the school to office the members of the school that the s unopposed numbees—oil professional architects—from the prerious

Novertheless, the AA membership oversees students—precisely the students, staff out the 3,500 proceptor the council's proposols were

launched a programme to save the school by recruiting until it was burating at the seams. Boynesky does not take singly 10. Chlicism or opposition. His mrouse gance—or self-confidence, accord—President Leopold Sengher.

North African provinces.

Rosearches had developed new linguistic theories, some pointing to the Egyptian origin of African land difficulty in moving troops becous of lack of valor fruntistical or their high culture and development by writars from Hopher, to Holling.

President Leopold Sengher.

North African provinces.

Rosearches had developed new linguistic theories, some pointing to the Egyptian origin of African land should like to make in and should like to make in the Becous of lack of valor fruntist developed new linguistic theories, some pointing to the Egyptian origin of African land should like to make in and should like to make in the Becous of lack of valor fruntistic for their high culture and development by writars from Hopher, to Hopher, to Hopher, to Work the land.

President Leopold Sengher.

North African provinces.

Rosearches had developed new linguistic theories, some pointing to the Egyptian origin of African land difficulty in moving troops becous of lack of valor fruntist and should like to make in the Egyptian origin of the Egyptian origin of African land should like to make in and should like to make in the country of the Egyptian origin of African land difficulty in moving troops of lack of valor frunties.

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End of the Egyptian origin of African land difficulty in moving troops of la

the many primery school hopulation of Fife naw goes home at 3.15 pm on any goes home at 4 pm. The loss where at 3.30. Two years ago, thoy, wore hand social and went home at 4 pm. The loss of school it have at 4 pm. The loss of school it mast primary schools hild war and possible on deliges any goes home at 4 pm. The loss of school it mast primary schools hild and and any doctoral have been refosed recognition by the standard poppedation. The second recognition by the standard poppedation on paper; because it primary school poppedation of the surface any goes are for having the face of the face o

THE TIMES HIGHER EDUCATION SUPPLEMENT 13.5.77

The Scottish colleges of education have entered the fight for survival with a ferocity which mokes their English conoterparts look like pacifists. They have mounted an aggressive and highly political compatign which has embraced everyone from the National Union of Mineworkers the Repus Catholic history.

to the Roman Catholic historis,

Already the proposals for re-organization have been defeated in the Scottish Grand Committee and in an adjournment debate in the Commons, Labour MPs have voted against the Government and Mr Bruce Millan, the Secretary of State

for Scorland, has earned much un-popularity for his handling of what he may initially have regarded as a relatively minor matter.

The Scots have a long tradition

of concern for education and no perceptible sense of the he'pless-

ness of the individual in the face of central government. In the words of a lemmer at Craigic Col-lege in Ayr: "We would not be flighting this land if we were not

Pro pro als are phat. Craigie Coll is and Callendar Park in Fal-

Lal. should riow, that Dunferm-line should nears with Dunder and that Proughs khart College in Edin-burgh chould neare with Dundes or Morry House. This would re-duce the number of colleges in Scaland from 10 to six.

duce the number of colleges in Scotland from 10 to six.

Why have the Scots fought so bard and so hapefully? Nationalism has undoubtedly played its part. Many people in the colleges feel that the dead hand of the Treusury is premateling Scotland again from the scotlang and promises the scotlang of the colleges.

Judith Judd examines teacher training reorganization: Scotland

Part of the last

are justice and the content in expectation of the content of the c

Hopeful Scots fight 'dead hand' of the Treasury college could merge with Moray House, also in Ediabargh and originally founded as a Presbyterian

The days of John Knox and Mary Queen of Scots may be over, his religious feelings are still strong in Scotland. The mixed marriage is contemplated with misglyings on hoth sides. The principal of Dundee and the principal of Moray House have both expressed rheir doubts to Craiglockhurt.

-The college has had difficulty in The callege has had difficulty in finding our what the merger would involve, but understands that the intention of the SED is that it should remain as a "unit" inside the other institution. Sister S. M. Hayes, the principal, believes that, olthough this might wark or first, the college and ity Catholic nature twould intrinably be solmerged in the larger rollege. Even if the unit survived as such it would become survived as such it would become

The college has been backed I The college has been backed in its campaign by the might of the Routan Carbolic Church, including the hishops, who leef that it is important for the future of Christian education that there should be a college in the cast as well as the west of Scutland. If the Craiglockhart merger goes ahead, Noire hame College in the west would be the only specifically Christian college in Scotland.

The two threatened colleges outs

The two threatened colleges outside Edinburgh, Craigie and Callendar Park were thrist by the SED document into nowilling competition. One of them, it was suggested, might be saved. Buth limit at the some time and both responsible for new initiatives in primary teaching, which the older colleges had, not previously undertaken, they

clearly dot the way to increase flexibility. Mr Sandy Thomson a lecturer at Callendar, Park, Suggests that one solution would be for colleges up form federations with the ability to switch roles as the denient for different three the

mont applicants as places.

Craiglocknow, the application Edin teacher education expands and contracts Most adjutions, almost burgh, is also proposed as a prospective, marriage partner for Dundee with the alternotive that the proposal.

Professor O. A. W. Dilke reports on the fourth international Latin congress in Dakar Iu the Middle Ages and Renois-



Connecting knowledge to a zest for life

J. H. Higginson discusses the topicality of Alfred North Whitehead's ideas about education

In the current debate about the social uniposes of education, one voice that deserves listening to is that of Alfred North Whitehead. For in addition to his couributions to mathematics and philosophy, Whitehead developed a number of ideas obout education that continue

to have great relevance.

At the age of 14, in the year 1875, Ar the age of 14, in the year 1875, Whilehend was sent to Sberhorno School in Dorsetshire, and he went up to Trinity College, Cambridge, in the nutumn of 1880, where he was ultimately to become e fellow,

and senior mathematical lecturer.

Fle resigned in 1911, becoming successively lecturer in applied mathematics and mechanics at University College London, and reader in generally at the same majoristics. versity College London, and reader in geometry at the same university, eod subsequently professor of opplied mathematics of the Imperial College of Science (1914-24). He has left a full end fascinating

He has left a full end restricting account of undergroduate life in nineteenth-century Cambridge. Of his days of Triuity os an undergradate he records:

"The formal teaching at Cambridge was competently done, by intercoting men of first-rate ability. But

ing men of first-rate ability. But courses assigned to each undergraduate might cover a narrow range. For assemble, during my whole undergraduate period at Trintty, oil my lectures were on mathematics pure and opplied. I never went inside anolilor lecture room."

But the lectures were only and facet of living in Cambridge, Much, else was supplied by incessant conversation with fellow undergraduates or membere of steff. Whitehoad notes that these discus-

ead notes that these discus-

Whitehead notes that fitese discussions would often stort at dinner, continue late into the night, and then he would do two or throe hours' work in mathematics.

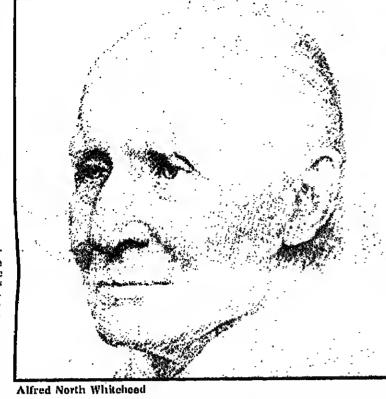
His London experience during the years of the first world war provoked him to further thinking ebout tha function of universities. He gained insight into this vast confederation of higher institutions of direction.

education.
The university had recently boan remodelled under the influence of Lord Haldane. The group of men and women—businessmon, lawyors, doctors, scientists, literery scholare, administrative hoads of depertment—who gave their time to this educational innovation was this educationel innovation was effecting a mansformation that fascinated Whitehead after his exportance as a follow in Cambridge.

Such was lis enthusiasm with this development in university education that he committed himself sulogietically, commenting: "It is not too much to say that this noval adaptation of education is one of the factors which may save civilizethe factors which may save civiliza-tion. The nearest unalogy is that of the monasteries a thousand years

gerlier."

At the oge of 63, in 1924, he was invited to join the Faculty of Horward University in the philosophy department. Towards the close of the session 1838-37 he became professor emeritus, and he died on Decambor 30, 1947, at Cambridge. Massachusetts.



carly days of lladow reorganization.
The keynnte of these essays is to be found in Whitehead's preface to the ariginal edition in which he unforgetubly inserted the phrase "Inert ideas" into the aducationists vocabulary, withing:

University in 1928 on Universities and their Function repays study.

Bosic to all other considerations in this 67-year-old seer's understanding of the function of higher education is the partnership of younger and older in seeking knowledge knowledge knowledge knowledge knowledge knowledge knowl

"Students are allre, and the purpose of eduration is to stimulate and guide their self-development... teachers should also be alive with living thoughts. The typole book is a protest against dead knowledge, that is to say, against licent ideas."

Not surprisingly—by virtue of his own upbringing—Whitehead's preocenpation is with the second level of education end its bridging power towards university studies. He finds the contemporory struction of secondary education is rigid and the starting of tracingly for a small starting of tracingly. dominance of training for e small set of definitive examinations is

He has many provocative tidings to sny nbout curriculum planning and he connectors two educational cammondonents—"do not touch too meny subjects" and "what you teoch, teach thoroughly".

The Aitus of Education gothers together a number of papers which give glimpses of Whitchead's thinking about education during the evolution of the 1918 Education Act.

evolution of the 1918 Education Act.

With the war coulod, the Fisher Act foreshellowed a dey-continuation scheme of education for young wage-earners which quickly become abortive for various ressons. With a similar problem still horassing ue in the 1970s, Chapter IV in The Ains of Education, dealing with technical education end its relevant to the Greet Debale.

Whiteheod detects e neglect that

Whiteheod detects e neglect that hos arisen from two antitheses: that between mind and body and that between thought and action. It is to the course of this closely reasoned address that he postulates the much

quoted dictum:
"The antitlesis between e technical ond s liberal culucation is fallacious. There can be no sdequate technical education which is not liberal; and no liberal education which is not technical; that is, no education which does not impart both technique and intellectual vision. In simpler language, education should turn out the pupil with something he can de well."

Will the current confusion of the

In the current confusion of the English education ecano, what a transformation would be effected if

wisdom. He has no concept of a stratified society where industrial

analogies have become dominant io the greater use "uf the plant" ond "increased productivity". He does not think in terms of bartering sections of student and bartering sections of student and staff divisive of a community of leorning. Ho is aware that the increasing internal complexity of organization threatens to destroy the potency of higher education "in the absence of widespread noderstanding of the primary functions which universities should perform the termine of the patient."

which universities should perform in the service at the nation." The letter phrase "in the service of the nation " suggests o significant development of the former Cambridge scholar's thinking. He hintself had noted how the particular achievement of hie Combridge days

Whiteheed develops an argument to relate the individual to the declared economic acods of society. He recognizes that modern business organizes the control of the control grasp of the psychologies of populations engaged in different modes of occupation. He looks to the universities to pioneer es in the post with those who will become intellectual leaders.

In our days of sensitiveness ebout elitism it would be misguided to sheer away too emotionelly without going more fully into Whitehead's ergament than space here permits. It must suffice to conclude with advice from his disension of where the emphasis should be with reference to teeching end research:

"Do you want your teachers to be

ence to teeching end resaeren:

"Do you want your teschers to he laughative? Theo encourage them to research. Do you want your rosearchers to be imaginative? Then bring them into intellectual sympathy with the young at the most cager inaginative period of life, whon intollects are just anteriog upon their

How quotas could help control student numbers

In the current discussions about catbacks in the number of students in some areas of study, and the in some areas of study, and the need fur expansion in others, it seems surprising that an serious consideration has been given to control through the introduction of quales of awards. Yet we are not without some experience of this system, particularly in awards for full-timo courses linked to postgraduata qualifications.

While a change to a quain system for all full-time and sandwich courses in higher education rounds

for all full-time and sandwich courses in higher education round udmittedly involve luitibily on extensive and complex exercise, nevertheless the advantages resulting from this changeover would appear to be universals, and might well result in a reduced administrative lead over the extensive in course load once the system was in opera-

The basic requirement for the intraduction of such a system would involve a major transfer of respansibility for student awards from the local education authorities jointly to the Department of Education and Science and to the institutions; and in the light of the current difficul-ties of local finances, it may well be that l.e.a.s would welcome this move to central government.

Already in the public sector, frum the systems of approvals and re-turns, the DES has at its fingeriles infurnation on the established courses and the number of students nttending such courses in each institution throughout the country. It should not be ton difficult to trans-

should not be ton difficult to trus-late this information into a system of quotas of awards for each coarse. In the case of the universities, there might be difficulties in essembling the information in the sante way; but no doubt this infor-mation could be extracted from

existing records.

A simple systom would be that, for every "odvunced" course ut study for students over the age of 18, a quota of student awards would be mudu uvnilable. Institutions, in offering the students a placu un a course, would automatically be offering them an award for that course, and would claim from the DES the fees for the students attending the

achievement of hie Combridge duys tros "a heppy accident dependent on sociol circumstances which hovo passed away".

His period of service within the context of the University of London had made him neuro of problems crooted by the widening conception of higher education and its new consumors. At Horvard the founding of o business school marked for him "e new foct in the university world".

In this way, the present pracedure of students having to approach their l.e.o. ofter abtaining the affor of u place would be made redundant, resulting in (presumally) constituted in the l.e.a.s. It would also moon that may new courses introduced by ut institution, if approach by the DES, would automatically receive on appropriate and realistic

quoto of owurds.
Such o movu might well hove o benoficiol effoct in the oroo of postgraduoto studies where, perficularly in the polytechnics, too many postgraduote courses are being designed for too few studente eble to obtain the presence of the polytechnics.

The proposed proposed

thinking as on under was time to get was time to get with control as the super time of the super time

cuarse anless it was over-substitutioned vacancies on similar tours all in nor exist elsewhere.

On the order lead, io fields as similar where an institution wat estimately failing to attract study and where other institution to all in the for particular courses, there are be o reduction or withdrawal; the quota from those toer attracting the smallest number.

In this way, the number of

in this way, the number of releast pursuing studies in any ricular field of study could fairly realistically courtelled, the situation where one insular might be toking on additional at the copo with an oversubscript of the situation of the copy with an oversubscript of the superfecture causes white to a particular cause, while the institutions affering similar the are searching for employment

Such a system would make present projections into ketch bers, allowing greater condectine total number of same of over the number of awaiting particular course or sm

Fairer shares

Effectivo control would do exercised over the number defailed to attract student of ap their quotas to edequate to their quotas to edequate their strough lind their income; respondingly reduced, and it course the withdrawal of of far particular courses would be The operation of this game, might well result in the mice, sector taking a fairer therety problems and difficulties with

present seem to be falling a generol, and on the former of How would this system a from the students polar of by The more oble student work. lurgely as at present—be at secure admission to the court institution of his choice. For less able student, the choices be nurs restricted, and be a

might not be oble to obtain it, Such a student would the tn muko a further decises, cither accept o different conf. the histlation of his choice as the original choice of course alternative institution, where the uwards were available.

uvurds were available.

If nelther course of scients the individual, then he or the more summed to the more summed to the more summed to prevent out of course be more to prevent such a person from plying for a place of a time or sendwish to the future.

The offer of en available.

In some cases one might dead to the plableries are the plableries are the source of the Diableries are the plableries are the source of the Diableries are the plableries are the source of the Diableries are the plableries are the source of the Diableries are the plableries are the source of the Diableries are the plableries are the pl llcal-sphincter. id student numbers is described is should elso help to direct and into those fields of study is thought would be of same the community.

Is the end in sight for university validation?

THE TIMES INGHER EDUCATION SUPPLEMENT 155,77

The comext for discussion of this issue was provided by developments during the past-Robbins pedod. Training colleges became colleges of education and, wholly under the auspices of universities in the first instance, began to develop BEd degree courses. The National Council for Tochnological Awards, founded in 1955, became the Council for National Academic Awards, Tounded in 1995, became the Council for Netional Academic Awards, The process began of designating polytechnics es major institutions of higher education in

the public sector.

The James Report on teacher education of 1972 recommended that a new validating hody be set up—the National Council for Teacher Education and Training—for teacher education awards, but that the CNAA and the public validation rich. CNAA and the universities might still play a part.
The White Paper of 1972 instead

praposed that validation should remain the responsibility of the CNAA and the nuiversities. But that and the intersities. But by then it was already becaming clear that major changes would be occided in the world of teacher aducation. Diversification was proposed as one of the ways in which the colleges could join in the growth of higher education.

Following the poblication of the 1972 White Paper, colleges either began to negotiate for a new pattern of awards validated by the universities with which they had hitherto been associated for their Certificate and BEd wark, and decided to call it a day and transfer their allegiunce to the CNAA.

number is by no means stable, a Same that originally decided in give up such work are now having second thoughtst utlers may yet

decide ja quit die stage. There is no clear-ent national pulicy concerning the future reli-dating role of nalversities. In the past, and in the interest of keeping alive some "needed" institutions that because of size or other fuciors were unlikely to satisfy CNAA criteria, the Department of Folucation and Science has shown itself keen tu retain university vali-

It has been recognized that the CNAA unde, which after a strin-gent initial approval process gives an institution a large measure of an institution a large measure of freedom to gavern its own academic affairs, is not always appropriate. Tighter continuing control in the university mode, associated with the provision of interial and wher help and hased on a more intimate and longstanding knowledge of the staff and institutions concerned, can sometimes be more soit cerned, can sometimes be mare soit

The Department has, however, for colleges and institutes of for colleges and institutes of higher education to put up large numbers of liberal arts programmes for approval. These fit in grammes for approval. well with the qualifications and experience of existing stoff. But they do less to meet notional needs, or to assist in recruitment of good-quality students against the competition of polytechnics and universities.

A another of universities did not feel able to offer the new BEd and other non-teacher education degrees that the number calleges of their institutes and schools of claim of the composulation of the Gronts Committee has come 10

thing they want, the suggestion has been made at developing "mixed economies", combining both miversity and CNAA validation.

The result of some on-going and planned mergers will be in breate work entrently validated by universities firmly within polytechnic frameworks. It is believed that, in some cases the moletechnic and the control of t reaneworks. It is believed that, in some cases, the polytechnic authorities concerned world like to retain university involvement in these courses and programmes—a development never envisaged when the 1972 White Paper proposed that universities should continue to respond in requests for volidation.

Against this background, is there a long-term luture for the univer-sitios in this work? A munber of considerations have to be weigher against earli other.
In farmer of contioning to offer validation is the riew that, by this

presence in the proble sector and enhance the influence they have on the development of higher education in general and on teacher edu-

There are also those who view with auxiety the development of a validation monopoly by the CNAA, however enlightened its officers, procedures and panels may be.

In some ensist, noiversity valida-tion permits the continuation of an historic association, valued by the scale of all the institutions consinies who udmit they have learned The nearest the University leges, and that the inbours involved are a necessary price for romina-Seautes. But these will inevitably

rejection of a course or programme

by the other body.

The Secretary of State's latest list of college clustures, which by 1981 and reduce to a mere handful the number of institutions in which teacher training constitutes none than 75 per cent of the work, and finally place the bulk of teacher training constitutes none than 75 per cent of the work, and finally place the bulk of teacher training constitutes none and the work of the first registration of each settings, once again values the question of whether there is a long tion of the work brooken, which is the short train. Where unnersities are not able to give the brooken the brook buk more kindly upon proposels from a single institution with an Some academies mointoin that

apparently assured future. the institutions legacet on university validation are likely to be thuse In some places there are enough university teachers who heliere in the positive effects of such work on their own faculties and departvariation are many in be thuse academically least strong and least whe to stand on their own teet. To accept responsibility in these cir-cumstances implies risks to standments to make it onlikely that maiversity presence will completely disappear. It is possible that, in a pieceoreal fushion, full oreigers be The "mixed economy" that some colleges want is regarded as producing unnecessary complications, such as different sets of the extractions of applications of the extractions of the extraction of t iween colleges and universitles will continue for same time to conte There may even be places where a fee structures and mechanisms of academic approval; an emphasis on a "service" ruther than a member long-term university/polytecbale relationship is warked out which a "service" ruther than a membership rolationship helycen university and callege, foreign in earlier
traditions; problems relating in
the recognition of teachers and the
danger that either CNAA or
university validation oright he seen
as a fall-back position against
rejection of a courteer or with includes clements of validation.

lo the long run, unless domand for chircen expercations, it seems ou-likely that any very large oumbor of institutions outside the univer-sities and polytechnics will have substantial numbers of higher education programmes.

Finally, more evident in common ruon conversation than official Senate statements, there is concern lest a university finds inself raildating courses similar to those to which it is unable to an act sufficient naunbers of internal students. Such fears may be a more important consideration in same universities than official Senate records admit. To an increasion extent, such uni-polyrechnic local authority ins infine will need to hocone colleges of continuing education if they are to remain riable. In these circumstances, it would be premoture to assume that large-scale university validation will exist is 10 to 15 years' time.

But much con happen in e decarle, and the possibilities of a new partnorship and new patterns of relationship, in which university Sit when the dust has souled, and the impact of the recommenda-tions of the Government's working teachers play a part other than us members of CNAA panels and teams, is by an means out of the question. Given this possibility, continuing in offer relidation, is a valuable way of keeping the emions one. group in the Government's working group in the management and fluence of higher education in the public sector have been assessed, will there still be a place for university validation? This question will be answered locally, through the decisions of individual Souther Parking and Control of the section o options open

William Taylor

opinion.

The author is director of London University's Institute of Education.

Capturing the devil in the artist

By the fourth century the Conneil of Nicca had established the main af Nirca had established the main lines about the nature and condition of a benign Deity had, as far at the Malignont One was concerned. Christianly was left in a state of suspense. The Evil One has always been Pratean, and Kirsch beam in his Lexicon of Christian conography ultimately has to give be inguished the impossible task of classifying all the different types of devils which prolifsrated in various and prolifsrated in various and prolifsrated in various and suppless the fact it is literally a pandemn at A good Christian man had to

order in the form of his presentathin, of disorder in its sontent. In fact it is literally a pandemonium,

The ship; a liorse in the shape of a line mounted by a kalght in the shape of a bird with a thirstle for third; arboreal man; a limite with a door in the form of a human of door in the form of a human of doolloal—whitesters.

It is enough in think of that great cremm of icomplogical topisymry-dam, Lugas Crumch, who illustrated the firm edition of the New Testament by Marth Luther for Refurnist, use, but who generously permitted the same gravures to be used in Eunser's New Testamont which was opposed to the Lutherm and Reformist theses. The reasons for this double-doubled were probably yeard, but who has over establed. renal, hat who has over escuped history of Western art?

Any crude psychological cherac-terization or any rigid Manichean catogory, is defeated by the frony amply demonstrates and deciments. In fact Diables et Diableries reaches us that bell must have been, even

temerks about the combinatory store and the rich displar in static horrors which there were able to sale which the Diableries are less in the combinatory store and the combinatory store in the combinatory store which there were able to sale which the Diableries are less in the preparation of leath the preparation of leath the catalogue, and the catalogue, the anguist of gold to the gold to the anguist of the interest of gold the second of the anguist of gold to the anguist of gold to the gold the second to the catalogue, the anguist of gold to the anguist of gold to the gold to the second to the first disbeliever must have been bottless the interest of gold decided to the catalogue, the anguist of gold to the gold to the gold to the second to the continuents. The unit of continuents of the continuents of the second to the continuents of the second to the continuents. The unit of the second to the continuents of the continuents of the second to the continuents of the continuents. The unit of the second to the continuents of the continuents. The unit of the continuents of the continuents. The unit of the continuents of



FA

motive action—the insistence

stopped short of the imposition

invernment has tried to interfer

for example, us with a reconfiguressional measure to lone medical schools to reserve a se-

of places for students who dide

preliminary training ormer

back barrl, and usually succession

hy the State Deportment dit,

universities are more selecter their intake, and make put efforts to prevent week sale

thropping ont.
Indeed, good management

seem to be more prosessed the private sector. State sains

prevent outside interface, their budgets than indeed universities responsible only at own hoards of trustess.

The result is that the budgets in the control of trustess.

private universities have me been careful not to overst themselves. They have not desc

ma hearily on research are pay lecturers' salaries. The

nay lecturers' salaries, tops nor granted an many leasternere during the boom persto block all opportunities rannaer staff during a persuagrowth—as has happend some large state institution.

One final major differences private universities are soil ized, whereas many public it is to the persuagram of the persuagram o

tiuns are, Callective burgait

the private sector is rare, ref

of the major privue reseat

versities has such arrangemen.
This may not last, howes, trachers' undons such of lettre but of forts in secure collective but ing rights. But, for the usion, and uniform, an

tiest princity is the major a compute state institutions. This

reivate liberal arts colleges at likely to be unloaked for the

time, if ever.

women and minority



Tha Timas Highar Education Supplement (London)

Professor Colten attacked reciul

Importance and decency of our objectives?".

The answer, he emphasized, we

Reverse discrimination runs into trouble

The Correr Administration is quietly consulting a large number of government agencies to see what attitude it should take over the Squeme Coort hearing later this professor of philosophy in the year to the suit charging the University of California with Professor Carl Cohen, from the University of Michigan, said racial

position the government should take. All testimony on behalf of the university must be filed by

The case, called ofter the plaintiff Allan Bakke, who alleges he was unconstitutionally discriminwas unconstitutionally discriminated against whom Davis Medical School admitted less qualified black students wille rejecting him, promises to be one of the most momentous in higher education and a landmark ruling affecting oll-

momentous in higher education and a landmark ruling affecting oil civil rights legislation.

The implications for universities, however, go beyond the legality of "offirmative action" programmes, the effort to recruit more women and minority teachers, and students.

Dr. Steven Muller, president of Johns Hopkins University, soid a ruling in fovour of Bakke could make it impossible for universities to use any criterion other thon strict academic therein admissions policies, outd night effectively prevent universities selecting on the bosis of intervieves.

Meanwhile a Gollup Poli just published shows that an nverwhelming majority of Americans believe thee reverse discrimination should not be used in employing people or determining admission to college.

furnt: pressing objectives (into groted professions, adoquate legal and medical service for members The post safed that seldom before had the American peopla been in such agraement on a controversal issue. In all, 83 per cent of the 1,550 adults interviewed in the aurant and medical service for members of minority groups) appeared to require impermissible mesns. "Might we not wink at the Constitution, this once, in view of the importance and deceney of our should not be given to women or minority groups, 10 per cent said ic should be given and 7 per cent had

national average and the opinions of men, womeo and white people as a whole were statistically lusig-nificant because the variations were within the sample's morgin of

However, 64 per cent of the non-white participants in the poll sold they backed the idea of making

saveness preferential streament for chimal footing attention to reconstruction and this oritides and 7 per obtaining anxiety; and agistate the same that the same trained for the wrong contexts, seeking, eity, illubil, and with the college. The sarriage anxiety in this seeking entry, illubil, and with the college. The sarriage and the college. The sarriage and the college. The sarriage and the college of the

In the second of three articles on private colleges our correspondent discusses what 'private' really means

Virtues of being independent

days they are public in function, increasingly public in outlook and bure been virtually public in governance, that they are more and more subject to federal government regulation has are state universities), and dopend creasingly on the federal government for money.

Furthermore, it is argued, these universities are not really "private" and that in a democratic academic clinate, decisions ore taken in con-sultation with teaching staff, students, and a wide variety of prominent public figures who form the hosed of government.

Private universities nowadays tend to agree they are not carrectly described—they prefer the
term "independent". But their
most orticulote salvacates have no
doubts that they do still have an
hor as 1,000 students in the
In day-to-day appraises, to
independent colleges probably a
small. Liberal orts colleges often
the public searhave as 1,000 students that they do not differ searthings no langer massible in the
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interpretation interpret hulependence which is valuable and

University of California is it "reverse discrimination".

Dr. Ernest Bnyer, Commissioner of Education, said the federal government is considering appearing in court on behalf of the university, and the Justice Deportment has asked federal ogencies administering civil rights laws what position the second control of the professor Carl Cohen, from the duction. There are four main teasons why for example, a recently formed lobby group decided to call itself the National Association of Independent Coheges and Universities (rather than Private Colleges).

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"Sume would have the law be position the professor carl Cohen, from the National Association of Independent Coheges and Universities (rather than Private Colleges).

"Sume would have the law be provided.

There are four main teasons why for example, a recently formed to be professor than the National Association of Independent Coheges and Universities (rather than Private Colleges).

The first is that the word "private Colleges and Universities (rather than Private Colleges).

The professor carl Cohen, from the professor carl Cohen, for example, a recently formed lobby group decided to call itself the National Association of Independent Cohen, for example, a recently formed lobby group decided to call itself the National Association of Independent Cohen, for exa "Sume would have the law be coloni-conscious now so that h cun indeed become colour-billed in tha and the omount of public research money and public state funds going to the Independent sector is now higher than ever before.

future. That cannot be One is reminded of political leaders who suspend' constitutions to build u firmer hase for democracy. Once established as constitutionally acceptable grounds for discriminatory distribution, racial categories Secondly, these universities are still independently governed. Their boards do not have to hare public appointees, nor ure they subject to the whims of portisen publicians in stato legislatures and governor's tory distribution, racial categories will wax, not wanc, in importance. No prescription for racial dishurmony can be surer of success", he

Dr Steven Muller, the eloquent and forceful president of Johns Hopkins University and chairman of the new association, said this was an "absolutely crucial counterbalance to what can he, and has been, efforts to curtail academic free-dom. Independant uplversities ware a indwark against political interfercince, has said—state legislature often stopped short of proposing regulation of state institutions when they found this would not apply to independent colleges.

This independence was especially volumble during the McCurthy era, when since imposed onths of loyalty in public institutions—a measure private colleges resisted, and which

Thirdly, the term "privote" suggests that these universities do nut perform a public service. John Sli-ber, president of Bosion University, strongly rosents this suggestion and has spoken at length of the "pub- Johns Honkins University

It is sometimes argued that private of the "private" sector. Into corporations in the Universities in independent "universities in Indeed, all these distinctions exist. States in recent years, and pin the charge are attenuated; that nowable of multic policy: like universities dislike the charge they are multiconduction, state universities they are multiconduction, and private the charge and the charge of the "private" sector. Into corporations in the Universities of the private sector. In the charge of the private sector. In the corporations in the Universities of the private sector. In the corporations in the Universities of the private sector. In the corporations in the Universities of the private sector. In the corporations in the Universities of the private sector. In the corporations in the Universities of the private sector. In the corporations in the Universities of the private sector. In the corporation of the private sector. In the corporation of the private sector. In the private sector is the private sector. In the corporation of the private sector. In the private sector is the private sector in the private sector in the private sector is the private sector in the private sector in the private sector is the private sector in the private sector in the private sector is the private sector in the private sector is the private sector in the private sector in the private sector is the private sector in the private sector in the private sector is the private sector in the private sector in the private sector is the private s have been since columnal times—

In academic operation, federal guvernment has made to interfere. Even at the column and the c have been since columnal times--

church-related, though hardty prirate", are certaluly independent. The United States Constituthan does not offer the public sup-port of bodies with a clear and specific religious orientation.

But these distinctions between "private" and "independent" are mainly distinctions of emplassis; in practice the terms ore still used interchangeably. But independence from the state is Important, and allows private indversities to da things no langer possible in the

have as few as 1,000 students. Johns rantly as a class. There we floodline has as few as 5,000, ones and bad ones, jun at line as few as 1,000 statement. John Hopkins has as few as 5,000, ones and bad ones, jungle whereas state universities have five the public sector.

It has been maintained of the more efficient. A recombination of the state Deportment of the stat

It is nevertheless true that private universities are under increasing public scrutiny. They are subject to federal regulation of their odministration—sacial security provisions, occupational health and safety, tax laws—all these have reduced their "primey".

But this is true of all individuals



Academy elects

National Academy of Sciences

Unesco shows many more students study abroad

UNESCO's Statistics of Students Abraul, covering a five-year period, shows that there were 637,540 foreign students enrolled in higher education institutions in various countries in 1973, o 33 net cent increase over 1969. Nearly 41 per cent of them wete in Europe and ground 33 per cent in North ground 33 per cent in North

The main flow was from the developing countries to universities and other higher level institutions in the industrialized world. But foreign students (from both developed and Third World countries) made up only a tiny fraction of the euroment there: 2 per cent of the world total, only 1.6 per cent in the United States (which had the world's biggest envolment of foreign sud-dents) and 0.7 per cent in the USSR

Is smaller countries the percentage was much higher: 16.8 per cent of the student hody in Switzerland in 1973, 14.2 per cent in Sytla and 12 per cent in Austria.

In yet another group of countries, the number of foreign students, though small in obsolute terms, still thingh small in obsolute terms, still represented a high percentage of total encolment: 35.1 per cent in Kuwait, 30.5 per cent in Senegal, 24.2 per cent in Ivory Const and 21.4 per cent in Singapore. In terms of percentages the Holy See has top place: 100 por cent of its students were from "somewhere elso".

The developing countries provided the bulk of foreign standards, nearly 63 per cent of them in 1973, with the Aslans leading with 40.9 per cent. Most Third World students worked in fields directly telated to serio-economic development or in which no training mas available at loome.

Thus, 26 per cent of the Asian students chose engineering and 27 per cent of the Africans chose social sciences. Latit American students deuts opted less for engineering (17
per, ceut) than for social sciences
sad hammalties together, which
accounted for 48 per cent in 1973.
Entopean students, like their North
American counterparts American counterparts, showed a marked profesonea for literary fields (34 per tent).

Just how the flow of students has theresied in the post-war years is thre and teacher training colleges, shown by the latest edition of Study Abroad, Unesco's directory of inter-national scholorships and courses. For the first edition in 1948, 280 institutions provided information; for the correst edition covering the scademic years 1977-1978 and 1978-1979, the list of contributors has grown to over 2,000 from more than 100 cauntries.

Moro than 200,000 scholarships followships, ossistantships and tra-rel grants oro listed. This does not liudude information from some of the very largest laternational training and exchange programmes

different study in 62 countries. burses listed ore either partienhad, make o special effort.

Republic of Ireland Australian studies chair

thique for f12,750 from Australia is mbossador to Ireland, plus promise uf more to come, was this symbol of the opening at the continuous chief symbol of the Opening at the continuous chief symbol of the Strick Isles.

U68: decentralized decisions and an end to binary system

Almost a decade after plans were first launched Sweden is about to shake up its entire higher education system. Mike Duckenfield reports

from Stockholm.

After nine years' debute and all the erratic progress of a game of snakes and builders, the penultinane mayer towards a complete overhand of higher education has, at last, have made.

Advances of the reform, on the other hand, point to the creation of the regions, the increased power bestored on them and the local building of smidents and teachers at the sub-regional level.

Mr Thorhjürn Fälldin's centreright chalifies government has presented in Parboneut a revised, final Bill to reform full-time, past-secondary and higher education. The Bill has now been passed and he legislation comes into effect on

The reform, which is based on the nucl-modified prinosals of the UGB commission which reported in 1973, and two other rammissions, in cludes a new administrative organization, curriculum reform, revised admission and selection procedures and the creation of several new centres of higher learning.

The underlying principle is the opportunities for higher study should be made recurrent. This is reflected in plans formering the in-creused enrolment uf mature stu-dents, stronger links with working life in corriculum planning, the development of short-term studies and the googrophical spread of in-stitutions.

The reform will be based ou-traditional academic disciplines.

New centres. The reform will eventually bring higher education to

The Bill is Streden's must compechensive ever regarding higher duration. It supersedes one premed by the previous Democrat gurernment two years

The main pulms are: A unified framework. There will be une organization for all full-time, pust-secondary learning, bringing together the six universities and professional and vucnilanal collages. It will enderse overything from the slowyenfuld Unpsala University to schools for the orts and agricul-

The system will be odministered centrally through of expanded and reformed National Ruser of Univerlties and Colleges (UlfA) responlible to gavernment and Parliament. The bund began preparatory work ust untunu.

Decentralization. The country will be divided into six higher edurationt regions, each based on one of the existing universities. Regional bourds will officate resources to institutions for certain types of rourses and have the right to comment on their budget requests.

The hourds will have 21 members The houris will have 21 memors unpointed by the government. About two-thirds of the members will represent "public interests" drawn mainly from the trade unions, business and politics. Of the removaling one-third ("oduentional interests") three will be chosen by university and college transpersional two by students. Within each region there are to While be several higher education units tive stu

this skoleculeirr); the iden being that all institutions in one town should farm one odministrative unit.

However, this will be true of only 14 of the 26 units. In six cases institutions in two small adjacent towns will be brought together and in the two biggest ciries. Stockbolm and Cothenhurg, colleges are too numoron: to enable single amalgamations. The capital will have four units and Cothenhurg two.

A repiral unit—nne of the two hogskoleenheier); the iden being

College of fournalism, music enlige, drama school and teacher training that live years to support the chair for fournalism and a for fournalism who nace wrote the first for three years on leave the first for three years on leave the first for three years on leave the first fournalism that the first for three years on leave the first fournalism that the first for three years on leave the first for three years on leave the first fournalism that the first for three years on leave the first fournalism that the first for three years on leave the first fournalism that the first fournalism that the first for three years on leave the first fournalism that the first fournalism that the first for three years on leave the first fournalism that the first for three years on leave the first fournalism that the first fournalism

huard for each simply course thojeumundeur made up of equal numbers of students, reachers and representatives of working life.

eaucracy. Opponent, say small col-leges will be swallowed up by the larger institutions within each only and the unified national framework will strengthen the government's

the sub-regional level.

Allocating resources. Budget mopusals for 1977/78 included in the Bill make a now distinction between fonds for research and resourch adventions individual. Joseph adventions individual. Joseph

search education; individual, local and special courses; and hasic

Fonds for general courses will first be divided between the five more outlined sectors into which courses are to be placed and then specific same will be allocated direct to the local units. Those for research will be divided between the nine existing university faculty areas and then sums will be ullocated to the units. Funds for local, individual and special courses

will be divided between regions ond In effect, this will ntean that financing of undergraduate full

28 towns, including all but five of the country's 25 lorgest. The other eight will be placed in regionally strategic rentres in less populated mreas.

Many rentres alternly hove a uni-rersity, affiliated university college at professional college. However, a major building programmo svill be necessary with initial plans for new institutions in six elties.

in nikilition, a tenth vocotimul-ichileul cullego (yrkestekulsk-högskole) affering post-seemidary yaratimul irpliting to skilled wor-kets in several key ludustries is in bo upened this autumn (THES, lumary 21 (1977) Juniary 21, 1977). Admissions. A mojor change from earlier plans is the decision and to introduce restricted entry

in all ligher education. The new Bill maintains admission limits where they olready exist, such as rejects further testrictions. In principle higher education will be open to all those who have at

be open to all those who have at leost two years' appear secondary schooling including two years of Swedish and English, ot are over 25 and have at least four years' work experience including (compulsory) military service and looking after and years are the two looking after the two looking and looking after the two looking and looking after the two looking and looking and looking and looking and looking after the two looking and look

representatives of working life.

Technical and administrative staff will get one spakesman.

Fingly, at the bottom of the organizational loader, there will be undividual institutional hourds made up mainly of teachers and stadause up mainly of teachers and stadause. up mainly of teachers and students.

Not surprisingly, there have been strong criticisms of this new bin-the pressure on facilities becomes Where entries remain restricted,

Parliament will decide annually on the number of places to be made available. Selection. When selection occurs mature applicants will be protected

from competition with leavers. Applicants will be divided into four groups and places allocated in propartion to each group's share of total applications. The funr groups ore: those with

three or four years' upper secondary schooling; thuso with two years' such schooling; those with other qualifications such as work experience; and those with fureign qualifications. The first two groups will be

assessed on school marks and vncu-tional experience for which points rouging from a minimum for 15 months' work to o maximum for five years' work will be given. The third group will be assessed on their rocu-tional background and the result of a rolantary study uptitude test. A for forcign students.

To gunlify for research education students must have a full first degree (120 points), of which at least 60 points must be gained in the subject in which research is to

Curriculum changes. There will be futer types of course: general, local, individual and special. By far the biggest, engaging about 90 per tent of students, will be general. These will be established by the government, who will olso decide where they are to be offered. The courses will follow national syllohuses set by UHA oud elaborated locally by the course boards.

About 80 general courses ore planned inhibity, each falling into ane of fire vocational sectors—technology; administration; economics and Sucial sciones; welfare and medicine; leacher troining; and culture and information work.

Hadar the Social Derverses class

Under the Social Democrats' plans these sectors were to be the basis for pluming restricted entry and multiers were to be genred to man-nuver needs. In the revised Bill they only retain organizational and linancial alguificance.

Local courses will generally follow the nottern of general ones, but will be initiated regionally to meet local vucational needs. Individual courses, where students decide their own study programme, ond special ones of a short duration -usually one or two terms-ure also regional responsibilities.

Swedish and English, of are over 25 and have at least four years work experience including (compulsory) buses by UilA has been under way for some mooths and several new courses are to be lurroduced, mony of them nimed at giving workors include onea on occupational environment. Trading. Such courses for axemple, someone include onea on occupational environment. Trade union law and adult courses for read English as polyets education at There is also a strong them.

While entry wil he free, prospect to enable students to do o preliming students will have to register inary basic course and then return applications about three months in to work with the possibility of con-

Long march of the reforms

1968: U68 commission to work out an overall plan for the development of post-secondary education, excluding research, appointed by Education Minister, Olof Palme, Four-man loquiry team lociuded heods of both the Nollonol School Board and Universities Chancellor's Office.

1972: Parilament makes decision in principle on entry, intraducing work experience qualifications following the report of a secood commission.

1973: U68 final report pre-

1975: Social Democrat government's reform Bill presented by Education Minister Bertil Zachrisaon (THES, March 14, 1975) and becomes low (THES, July 4, 1975). Third commission set up to not on central organizing contributes overseeing implementation.



Former Education Miolster, Bertil Zachrisson : oversaw mages of legislation.

tinning studies later. In future, law education, for example, will consist of a two-year basic education in legal rights. This will give a quolification in its nwn right as well as being the base for all further legal tenimes.

Similar immuvotinas will enable nurses in become doctors in a shorter time than other sindents without medical experience and give student journolists o one-year proctical placement midway in their three-and-a-holf-year quolification

The Bill also mentions three areas The Bill also mentions three areas where work is still in progress on reform. Compulsory student union attembership is to be abolished, though not yet; the nunking system is to be reviewed with the probability that a shaple three grode scala of fall, pass or good pass will be introduced. Also UHA or a to exomine the designations of currence degrees. degrees, examinations and qualifications.

The government plans a 6.4 per cent increase in higher education spending for 1977-78 to 1,867.9m Skr (£256m). The biggest increase will be for local, individual and special courses (17.7 per cent).

The extrone right, including the Swedish National Union of Students, is now the only political group which still finds the much-diluted reform ino strong. The union points out that free entry is only guaron-teed to three subjects and fears that local decisions to hindt numbers will be pressed for by community representatives on regional and local hourds, thus restricting entry by the back door.

On the other hand, the Social Democrats have found the new pra-posals too wook. Mr Bertil Zachris-Sun, Educulon Minister until lost October's change of government, feels that the Bill gives too outch power to the university dominated local units. He fears that traditions educational interests will seek' cripple the reform, especially limiting the spread of rescotch new centres.

On three things, however, ell agree: there should be more cantres of loaming, higher education should no longer be a preserve for school-leavers and, show all, the barriers between "higher" and "further" should disappear.

New structure

With only a small Ministry of Eduthe reforms

cotion dealing mality with policy, legislation and long-term plonning, the reorganized National Board of Universities and Colleges (UHA) will shoulder the burden of day-resirielium of research to universities (THES, February 28, 1975).

Its main tasks will include cen-tral planning, lucid ling the pre-paration of ennual national budget proposals, coordinating local and regional initiatives, and the develop-ment of syllobuses for general

mittee overseeing implementation.

1976: General election and new government. Eleventh hour revisions and consoltations. Plona to restrict entries scripped (THES, Jonuary 7, 1977). Universities and vas directory ganeral of the National Board of Education of the National Board of Education—1171A's sister agency responsible for compulsory and secondary schooling—for fire years tution July 41, 1114, 1144, 11

C.

Jewish lecturer challenges 'Christians only' rule

The answet, he emphasized, was no. The single mose important feature of a constitution was its preclusion of unjust mesns. "Means that see corrupt will inter the result and will corrupt the user in the end. So it is with wiretapping, with censorship—with every shorten taken knowingly at the expense of the rights of individuals." A furore has broken out in a small Davidson's effectiveness as a Presbyterian college in North church-releted college.
Carolina which withdrew a job offer to a Jewish lecturer becouse clations of the 140-yeor-old liberal he rafused to support the college's sets college. Students and lecturers

Third, racial preference was good for nobody, black or white, Davidson College employed Dr ublify alone, es determined by tests, the basis for employment and tests, the basis for employment and college employment them, foreing attention to race, from Princeton, and a temporary them, foreing attention to race, white, them, foreing attention to race, white, the minorines end 7 per obtaing anxiety and end agriculture of the wrong contexts, the wrong difficult to grant him tenure about race to the wrong contexts, and difficult to grant him tenure about race to the wrong contexts, and the time that it would be about race to the wrong contexts, and difficult to grant him tenure and the college.

policy of giving preference to have boycotted a student award Christians in hiring and granting coremony, and North Carolina's general assembly is drafting legis-lation to bon state aid to students

Dahrendorf.

Dr Ralf Duhrendorf, director of four distinguished academia ing in Britain or of Brillion of Strates.

The section on International cour-

The athers are Dr Signature, head of the mercular genetics division of the mercular of the mer

Next week: The future!

Landan School of Economics. 11 ing in Britain or of Brillio of

lation to bon state aid to students who attend colleges that discriminate in hiring.

Dividuo College has six less among its 1,300 students, but to Jowish teachers. The trustoes have now decided to raylary the Christian at Given Research Laborate in hir in the like or they are specific at Given Research Laborate international courses, in which at the course of the like or they are specific at Given Research Laborate international courses, in which at the course of the like or they are specific at Given Research Laborate international courses, in which at the course of the like or they are specific at Given Research Laborate international courses, in which at the course of the laborate international courses, in which are considered to revision of the laborate internation periods, help, with the like or they are specific at Given Research Laborate in the laborate internation periods, help, with the like or they are specific at Given Research Laborate in the laborate internation periods, help, with the like or they are specific at Given Research Laborate in the laborate in the laborate in the laborate internation periods, help, with the laborate internation periods and period (providing special language).

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Scandinavian studies would not generally be thought of as a likely survey of furious controvered special propert of furious controvered special properts of courses and controvered special properts of the furious properts of courses and controvered special properts of the furious properts of the furious properts of the furious controvered properts of the furious pr

and courses in the less widely used. In the less widely used in a substitution of the control of

LETTERS TO THE EDITOR

Mrs Williams and scientists

the educational trees, mulwybring the control of the organization and of the first properties of the comparisons and e with account much in district in vector year, is all and the control of the organization and control of the organization of the organiz Sir.—I would like to curreet an innecurury in your front page an Sufford Jewish society's Israel Week.
The article stated that at UMIST
the Jewish Suciety obtained an fajunction to prevent a discussion on
Zionism and in the leader it was
suggested that such a practice was
unjustifishie.

The fact, what the UMIST Jowish
society did was to serve a writ on
the proposers of the antifum which
claimed that the motion was in
breach of the Uolon constitution.
The writ did not force unyone to
do anything—it merely gove notice
of the foct that the matter could
be pursued legally if the motion was
possed and Zionism hanned.

What then hoppened was that the
meeting voted to dissolve itself and
an informal discussion then took

Mathematics

Just rewards for academics

What are just rewards for academics? It is tempting, but fruitless, to seck intrinsic criterio for pay, some obsolute sense in which or perfessor is worth £9,500 a year. The question facing the essocial modern equivalent salary is one the moment is how best to gain iron the transition to stage three of that pay policy operated with a pre-war professor, a moletin equivalent salary is one dedicational tree.

There are principles miderlying the corder of the educational tree.

There are principles miderlying the essocial of the professor is still at the loop of the deducational tree.

There are principles miderlying professors an exercise of the professor is still at the professor is still at the open of the concept of the professor is still at the loop of the deducational tree.

There are principles miderlying professors as exercised the professor is still at the loop of the deducational tree.

There are principles miderlying professors as exercised the professor is still at the loop of the deducation and of the 1975 grievance could well be of the order of 40 the deducation and of the 1975 grievance could well be of the order of 40 the deducation and of the 1975 grievance could well be of the order of 40 the deducation and of the 1975 grievance could well be of the order of 40 the deducation of the professor is still at the loop of the deducation of the professor is still at the loop of the deducation of the professor is still at the loop of the deducation of the professor is still at the loop of the deducation of the professor is still at the loop of the deducation of the professor is still at the loop of the deducation of the professor is still at the loop of the professor is still at the loop of the professor is still at the loop of the professor is the professor is st were really interested in science and I left with a feeling that the However, the CSE and GCE C'at sylfabuses cover both kinds mit not allow pupifs to do one sitthe other.

> Unfortunately this ran becter-praductive for many (ikt.) rity?) of children who will by need the second kind. Theeir age, which I would put a be t3 ur 14, beyond which it is 4 k e wuste of tione and valuable mi ing expertise to confine it intempt. At worst it production fiable resentment and aggregation in the production is supervised. He was guard student doing his best in sylfaluness of dobious relevant many of his pupils. Two or the prints were constantly traditions. girfs were constantly troobes threed the eri de coeur: "Boti when will I ever need a tem?" There was in answer to the ging question but her message for me lary educotinn was clear.

My proposal for discussion has At the end of two years in the serundary school fand after the eight years of mathematics with a light years of mathematics with a light years of mathematics with a minieracy paper of the kind in maneracy paper of the kind in pased by several ogencies to bulletin of the Institute of Mathematics and its Applications, light 1977). Those who do wall of the otherwise shown some mathematics therwise shown some mat optitude should have the agest continuing with CSE or GCE 0 has multiculatics courses. The obs multientatics courses. The observable should have onother year of softic tractical remedial mathematic and another attention at the postinut after that many pupils call to released from the absurd setting that other skills or talents should be developed.

Establishment thinking as a threat to capitalism

Contrustlog views of Victorian capitolism. " ft is a false assumption that Victorian society was a nexus of social 'deprivation'

strange reversal of the position of a century-and-shaff ago, when capitalism was promoted by the high-minded and the numalists of that period precisely because of its moral quali-ties. Some of their ideals are no longer appropriate to our society, but some others argently need to be rescued from the oblivion

to which they ere sluking

For the morality of choice; with the individual's freedom to select, citier as produced or consoner, from among alternative fources of economic enterprise. It is the freedom left to the individual to have a control over fils own labour: the direct controllicition of the Marxist assertion that a man alienates his freedom and his persunality by welling his labour to another. Provided the conditions of work are adequately safeguarded, and both sides equally, of law, the risks are the same for the man whose effort is rendered in organizational skills, and who chances his enterprise or his capital, as they are fur the man who sells his lobour.

The unequal distribution of worth which The unoqual distribution of wealth which The unoquol distribution of wealth which follows has attracted severe condemination; soliceably from those accdestic and ecclosistical observers who are most obviously its beaficiarios. But it is a minor feature of a most larger and more beneficial result; the melantage of the means of livelihand indicated on the state—att assential condition in a society where there is recommended. in In a society where three is no ogreement small in a social negative small in social negative for about what the ethical busis of the state mould be.

available authorities presents capitalism as actably lacking moral dimensions. It is o

to which they erc sluking

There is another feature of capitalism even less appealing to the contemporery social andook than the nurarice of economic choice: the relationship hetween enterprise and personal moral character. It is true that the competitive element in capitalism less sono disagreenhle side-effects which the nural lense of men will contain. Me Heedt care spoke telsely of the "unacceptable face" of spoke telsely of the "unacceptable face" of the social conscience are also once whose identifiable agents of alloged social injustice can be held up for punishing, hirth cootrol, and all the other requisites of our present day sense of moral lense of men will contain. Me Heedt care is poke telsely of the "unacceptable face" of the social conscience are also once whose identifiable agents of alloged social injustice can be held up for punishing, hirth cootrol, and all the other requisites of our present day sense of moral lense of men will contain. Me Heedt care is one sorts of near will contain. Me Heedt care is one sorts of contemporary proctices such on the once-accured prophets of contemporary proctices such on the other can be held up for punishing the content of tho social conscience are also on once whose identifiable agents of alloged social injustice can be held up for punishing the content of the once-accured once whose identifiable agents of alloged social injustice can be held up for punishing the content of the once-accured once whose identifiable agents of alloged social injustice can be held up for punishing the content of the once-accured once accurate and all the other requisitions. This appears the content of the once-accured once accurate and all the other requisitions of the once-accurate and all the other requisitions of the once-accurate and all the other requisitions. This appears the prophetal carticatures of a great deal of content of the once and injustice can be held up for punishing the content of the once accurate and social injustice on the prophetal prophetal prophetal prophetal prophetal prophetal pr There is another feature of capitolism even

But these ore errors which, again, do no but the to the grainer more) advantages of the state of victorian anciety—more and the properties of the properties

the exercise of moral considerations in suchol relationships, rather then on pre-determined blue-prints of econode motality, enforced by the rule of law, fushioned by those who have orrived at what they think is best for everyone, and unvarying in its application in a real world when the present the control of the contr In a real world where men are cuernously diverse in their moral sense and personal responsibility.

The philosophical attack upon capitalism is open and clear. Though that by my means confined to Marxism, it is Marxist doctrine which, in our own times, most appeals to racaties of capitalism. My purpose, however, is in explore the less open, less clear forces ranged against capitalism. For in our society Marxism is not widespread, however much it may have acquired acceptance among small groups of intellectuals and trade unionists. The threat to cupitalism here comes from much more conventional end respectable "establishment" thinking.

"establishment" thinking.

Many who would be surprised to be tald that their attlendes and principles were operating against the survival of empitalism are in fact ranged against it. The intellectual fashions of the time promote several basic assumptions whose implications are hostile. First among them is the dustruction of the mural outlinrity of the past: the growing insistence, in the historical interpretations, oow emmonplace in the schools and unlectables, that captulier society has been clusterials. sities, that capitaliot society has been char acterized by class oppression, sucial injustice, and almost callous indifference by the rullog groups to the conditions of life oming the

Here are the familiar tableeux of the flint-Here are the familiar tables of the fint-faced capitaliste, the Doumler cartaons of the recking shaus, the vaguo for Mayhaw's Landon proletations, the Chertist laging a-phy, the rehabilitation of the once acoused prophets of contemporary proctices such as feminism, hirth control, and all the other requisites of our present day sense of moral

oppressive social injustice.

oppressive social injustice.

If such eccounts become the historical ortholoxy of the future—which is likely, incidentelly—something enthrely familiar will have occurred. Far the origin of our own view of Victorium society was exactly like that; hesed upon uncritical occeptance of the propaganda of good but obsessive onen pursuing laminable aims.

There is auather set of attlurdes whose general tendency is to sap the moral respectivishility of capitalism. I mean the prevalence of what may be called "moral collectivism"; it is, in the end, prubably the most formidable of the forces ranged organist, the most filtry that young people will regard repitalism as an acceptable economic and social ethic.

Our society is now full of people with

on acceptable economic and social ethic.

Our society is now full of people with highly developed social consciences. Social "concern", indeed, is one of the most admired virtues of the age, e sort of sucularized sign of grace. People praise youth, because at its esgernoss to content for acticity justice. It will seem e cort of biaspheny to question it nil—but I am going to do eo, for two recoons.

First, much of the pareded social concern of our day is a bit ocademic; it has on semiclarit quakity. It has become something of an emotional release for the class guilt of the bourgeols intellectuals and those whom they influence—that enormous oumber of people who blot up the latest ideas cutainating from the fashions of thought set by the pundits of the age and yet who suppose that they ore "rhitching for thomselves".

For very many social concern also are

For very mony, social concero also expressos an element of clase antiprohy. For example, most of the subjects which become the content of the social conscience are also ones whose identifiable agents of alloged social injustice can be held up for punitive artention. Londlords, capitalists, unenlightened educationists, and so forth, ore the propegantia curicatures of a grent deal of copial thinking in our country today. There is o sharp polemical arige to many of the campalgos about housing, rece, occlai well-fare, and all the aceas in which there is, no doubt, real many fine than the oced to foster the curative production of westth, or the part which ought to be played by individual responsibility. If the superior of hostife structure are subjected to the same doubt, real many is important, and it is conventionally overlooked precieely

I do not need to say that copitalism lecks influential incllectural exponents in our day.

If is regarded by some as or experteable neressity; by others as an inheritance from the part which is open to question from several persuition of which is open to question from several persuitions of the moral sense of mankind has afrendy rejected but which requires some regal consequences; and by some others as intended to supervise the supervention for the personalities of the labouring masses. The idealism of the young is largely turned against it. Educated opinion in general is full of moral spirit.

The overwhelming view offered in the transport of the overwhelming view offered in the coverwhelming view of the view of social olivations with wintexses synthetic to their view of social olivations of wealth will benefit along the superventing first of individual self-interest in its confident distances and packing parliamentary inquiries with wintexses synthetic to their view of social olivations of substitutely parliamentary inquiries with wintexses synthetic very laudable matives, they underted things, got perspectives.

Capitolyn is self-interest to include their view of social olivations of substitutives, they underted things, got perspectives which were lightly restricted in include their view of social olivations, as universal, as u

Far too much social responsibility is being removed from the ereo of private more inhibitive to the collectivism of the public eector. Political theorists have to the passibeen much exercised obout the problem of whether a moral eet loses its virtue if compalled by law. The problem remeins an unresolved one in a policy like our own, which does not subscribe to a single motal purpose on behalf of its citizens—as fully collectivist states do.

I come at last to the role of educators.

lectivist states do.

I come at last to the role of aducation. You will, I hope, see at once the relevance of what I have been trying to suggest about the strength and persistence of the attitudes so manifestly undermining the moral authority of capitalism. For the teachers in the achools, and the lecturers in the nulversities and colleges of cilication, are notable for their tendency to threat upon the fourts rather than the virtues of capitaliat society, indeed, they are the most pervesive of the agenta for disseminating dissulsfaction with

Indeed, they are the most pervisive of the agenta for disseminating dissuls faction with existing social values.

They will, of course, say that they ere teaching the young to be "critical", to acquire an unprejudiced social emeclence, to "think for the prejudeed about the basis of moral and social ideals. They will claim—and doubticee octually believe—that they are pi'e serving a free society by helping others to cultivate the practices of free criticism.

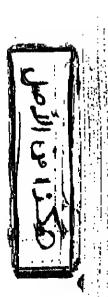
Alas, the children are in reality precaated not with an open choice, but with endless criticions of the social and political arructure; and by auggesting that all our inberited values are open to question the teachers are destroying the moral authority of the execting social order.

In ito place, through the device of opperent

ing social order.

In ito place, through the device of opperent freedom of critical choice, they indoctrinate the children into a confused social discontent. By rejettive descriptions of the short-comings of welfare in our society, by frequent reference to social evils, end by attempts to identify the class enemies of enlightened social odvacco, many teachere present a picture of a society in oeed of rodical change.

How can a new idealism for capitalist free-dom and capitalist enterprise be conceived? There is a glammer of light. For the very



Social limits to private consumption

Social Limits In Growth by Fred Hirsch Rontledge & Kegan Paul, £5.30 ISIN 0 7100 8610 5

This is a stimulating, provocative and already widely praised book about the structural problems in advanced industrialized societies. It is written by a brilliont economics whose thoughts and concerns transcend economics narrowly defined, Like every good economist he deals with a psychological issue: the balance of sotisfactions and frustrations experienced by peoule trations experienced by people under a given economic order.

The picture he paints about the situation in the United States and in this country shows the fensions not weighing the satisfactions and this, he claims, is increable. As affluence increases, so do uspirations; even though the entire population has a lugher standard of living than the generation before them, people are not more satisfied with their lot. There is a scramble every corner for a greater share of the common pie; the nation of equal opportunity has been unmasked as nonvorkable; the nflationary atruggle for differenlols only increases competitiveness between accial groups and must be ultimately defeated by scarcity, quite apart from its incompatibility ich egalitarian trends and demands for universal participation. The invisible hand, once credited with the magical power of odding up all self-ioterested octions to arrive at the common good has lust its magic, if indeed it ever had it, and the competitive self-interest of everyone undernings the moral course.

for a higher place within some ex-plicit or implicit hierarchy, and that thereby yields gains fur same only by diat of losses for others." Such competition, he argues, is the result of hasic human needs being satisfied, i.e. of relative affluence. Ir makes ecommic life a zeru-sum gome. Liberal capitalism could play a positive sum game only as long as the basic needs of a large proportion of the population relong us the hasic needs of a large proportion of the population remained unmer. The time is past where the development of industry could benefit worker ond entrepreneur by providing a living wage for the former and profit for the latter. Now everybody wants to be an top of the ladder, a manifestly unfulfillulate desire, frustrated in the effort or achieve it.

The social limits to growth, living amintains, iles in the fact that there

omintains, lies in the fact that there is limited coom at the tag; or, in Hicsch's favourite metaphur, when everyhody stands on ap toe, unbody sees further. Ificsch offers many examples to show that mass consumption of goods and services, ariginally restricted to the privileged few, spuils their use for oil: driving has lost much of its attraction when e has lost much of its attraction when ones ownership of cars creates traffic joins; living in a suburb loses its value when everybody can afford to live there ood thus only extends the area beset by urban problems; university education loses its advantage in the job morket if too many hove achieved it. The more widespread tho aspiration for the guoil life, the lower are the chonces of enloying it.

he magical power of odding up all elf-ioterested octions to arrive at the common good has lust its magic, f indeed it ever stail it, and the competitive self-interest of everyone undernilities that moral consensus without which a society is in serious trouble.

Hirsch's argument rests ultimately on ona new concept which he here introduces into the debate about the fattra of developed societies: the concept of positional competition. But of the greet with the possible of the stimute over in play." Short of such verification, and the counter-specialtion. There is no question that driving is now less the competition of positional competition. It is fundamentally the for the greet mass of eor owners are the proportion of positional with the proportion of positional competition. It is fundamentally to the greet mass of eor owners are the proportion of positional with the proportion of positional competition. It is fundamentally to the greet mass of eor owners are the proportion of positional make-up of munity. But they du not do justice to the complexity and diversity of human play. While f agree with Hirsch that on improved standard of living is configuration. There is no question that driving is now less the result that they du not do justice to the give complexity and diversity and diversity of human play. While f agree with Hirsch that on improved standard of living is configuration. There is no guarantee for antisfsction, let the proportion of possible to estimate over it was not possible. The proportion of such arrived was not possible. The proportion of possible to estimate over it was not possible. The proportion of possible to estimate over it was not possible. The proportion of possible to estimate over it was not possible. The proportion of possible to estimate over it was not possible. The proportion of possible to estimate over it was not possible to estimate over i



The gould life-in a canotry collage or us a member of a foutball crowd?



driving provides a deep satisfaction, a sense of freedom which they do not experience in their typical life, only condition but from their economic part and the traffic interesting life. never mind the troffic jums. That a lowering of the standard of liva lovering of the standard of living of any group results in frustration is beyond doubt. But that an increase has the same result hecause it does not confer pusitional adventuge and elite status, in a very different proposition which seems to rest on a questionable image of one as individualistic, rational, achievenent-priented, conrational, achievement-oriented, com-petitive and totolly determined by his economic position. These are, of course, important elements in the psychological make-up of muny.

trations not just from their econ-onle condition but from their state of health ond the network of human of health ond the network of numan relations in which they are eacastheil. Not everyhody wants to be of the tapt; many feel more secure on lower rangs of the ladder. But above all, the economic ladder is not the only one; there are hunis not the only one; there are hundreds in every community. To the extent that man is luiled a competitive animal he has a vast choice of octivities through which he can express that trait; pluying darts or express this trait; playing darts or chess, growing fine vegetables or flowers, becoming an officer in an organization, baking the best cake, climbing a high mountain, being given o part in the local theatrical given o part in the local theatrical group or orchestra, and so on. But not oil these activities depend on competition. Man is also a playful onlmal and does many things for the sheer enjoyment of doing them, alone or in the non-competitive company of uthera. Indeed, it could be orgued that

given the precarlous ecumunic con-dition la this country, more, rather than less, economic compenitiveness, more, rather than loss, economic

achierement motivation is to prevent the frustration is the first prevent the frustration is come from back of economic for it is at this polot that one kern wonder whether the tile of the second prevention is the file of the second prevention with the second pre

to wonder whether the tile of bank is appropriate to its one. Social limits to Private Courtion, admittedly less cotching it seems a better fit.

This becomes quite obviour litirsch turus his attention of epolicy implications of his deal is too vise to suggest a bloggifur the good society but lead as the crux of the matter beging as the crux of the capitalism soic what it did achieve, as he will caut, only because a social soil continued fur o time which held developed in the pre-capitality. developed in the pre-capitaling pre-industrial past. ore-industrial past.

Only if more of the good to in life are collectively provided to the model of an industrial past of them, will read and self-defeating individually curhed. Hirsch, o relative advocates spelal with

tivist, advocates social mil thry equality". At press to says, for example, the key jobs are olso the most interact and prestigeint. Competition he reduced, if the materials the non-quaterial rewards could removed from the comass sector and publicly ollocated or the market system. Hirsch of the market system. Hirsch of the market system. Hirsch of the market system those and the pulicies are limited to scope the difficult to implement: "Some in termoil because the only know the because the only know the system. macy it has is social justice; d the transition to a fust socker an uncertain road stress in leaves ununswered is this: com

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1890s, considered to be its proper ahus are neatly crystablized by Pru-

sense: apart from my other reason, the materials are unt there in support it. More recoilly satisfiable are the demands of the economic historiums, since the bank's past is embedded in the economic only politico-economic history of the country. But while these oniomis will find alenty to blue on here, the outhor has stack more or less steadily to the tosk of willing o boulding history. By the very nature of the amplicat, os well as Sayera's own command of it, this is hanking history of a very elevated elevel, and the opproach is for from narrow. But the facus is always on the bank: Initiating erents and receiting to them, parse of always a corrowly conceived, graduolly aliaring its perception of its because of the passilication.

Bocause of the passilication.

hulder." At the and of the accord volume of this major history, on tha eve of nationalization, the bonk organization and personalities of the manager of the whole small group: the governor of the peculiarities of in 1931 and the management of the manager of the whole small group: the governor of the governor of the manager of the whole small group: the governor of th the eve of nationalization, the bonk was consciously ond unquestion ingly the manager of the whole muney ond banking system of the country—everything, in fact, that we mean by a "central bank"; and it wos also, incidentally, in sheet—professional, competence without an aqual, it be one officials one that bank's history is should invite Richard Sayers, never the whole caravon.

The Bank" usually moant a very continue to the Bank" usually moant a very octions and reactions of the total octions and reactions of the moderner. At times it mean—octan of directors, officials and advisors who were left, in the bank's absence the professional, competence in a natural list the bank's it anything; tanderplayed, and the power so gained is complification of the bank's history is anything; tanderplayed, and the whole caravon.

It is important to noderline that, that remains is unexpectely that the bank's hard that have a professional content to noderline that.

should invite Ricbard Sayers, never an incritical eye on the bank and its deeds, to write its history during the aventful and critical first holf of this cootury, though when Soyers lays down his pen' in the mid-1940a there was still some way to go to the comporative self-exposure of the present day.

The development recorded in the first two of those threa volumes (the third volume, consisting of exposured) the moderness published and unpublished is one will approach. The monetary men cloarly have an luterest in this centre-plees of Sripisi macroeconomic history but the author eschews mone.

In the wiola caravon.

It is importent to noderline that, the wiola caravon. The work is as on the wiola caravon. The work is a history during the wiola caravon. The work is a history during abut the properties of the bank. However, it is a measure of how often, for all the benefit of basically as it was provable to the historian: to do may be more immediate impressions in the book records, the surry remains to the historian: to do may be more immediate impressions in the book records, the surry remains to the historian: to do may be more immediate impressions in the book records, the surry remains to the instruction. For expenditure, historian to do may low often, for all the benefit of basically as it was provided to regret the basically as it was provided to regret the basically as it also reflects the quality of eartical remains is unexpectedly that the party one's response to a third volumes. The basis of the ovolution of this source and interval and incomments in the country in a may be continuous of the country interval and the party one's response to the basis, but the bank that remains is unexpectedly that the party one's response to a third volume. Country the bank on one overrul and the bank that remains is unexpectedly that the party one's response to a third volume. Country the bank of the country in the country in the country in the country in the party one's response to the bank that remains is unexpectedly

Interactive languages

APL/360 by II. Hellerman and I. Smith AlcGraw-Hill, £6.60 ISBN 0-07-027950-0 An Introduction to BASIC ISBN 0 7135 1928 2

An Intraduction to BASIC, A Cuse Study Approach by P. J. Hartley Macatillan, £1.95 ISBN 0 333 19620 1 APL and BASIC are two very successful interactive programming lauguages with quite different design uios. APL is intended to be a very

powerful problem solving language, une of whose main features is the cunciseness of its programs. This has led to the phrase "one liners" heing applied to APL programs and doubts have been traised on whether brevity and clarity are compatible in a progrouming longuage. BASIC, hawever, which stands for "Beginners" All-purpose Symbolic histraction Code " is intended for begioners in programming and is a language which can be picked up very quickly. In fact many programmers must have learnt it simply gramoters must have fournt it simply from a demonstration by sumeone experienced in using the language.

APL/360 by Hellerman and Smith is a good introduction to Smith is a good introduction to APL. The puwer of the language outst soon be obvious to programmers familiar with other languages and the various execution modes of APL timmediate execution, function are earefully explained. The right to left rule for evaluating expressions has always seemed strange to soole and, while the con-

the bank, the comment on page 22 than "the right to left rule can also be considered as a strict left toright rule" would seem to be designed to confuse. APL comes over as being a very

consistent language and one that gues a long way to achieve its primary alm of contiseness. The authors emphasize the principles on which it is built, including the element by element rule and reductime-type operations. Huwever, by distinguishing herween concise and detalled programs, the latter being ones which do not use the full facilities of the language, they seem to infer that hrevity is not neces-sarily the ultimate. Programming safe and ducumentation are dis-cussed in an appendix entitled "Guidelines for Program Hygiene" and another appendix describes the APL shures variable scheme slesigned by IBM.

There are many sample programs in the book taken from the fields of surfug, statistics, economic mudels nul simulation. There are plenty of examples for the student to the, but solutions are not given.

The twu knoks on BASIC are hath introductory texts with rather different approaches. Mr Engle's huok emphasizes a wide variety of possible uses fur BASIC with examples taken from graph platting and computer assisted.

not mean that a high level of mathe-matics is required to understand tho hook. The techniques used are all fairly simple and are carefully ex-plained. The use of the termional is considered as part of each pro-gram and the version of BASIC used is that available on the ICL 1900 series. Most chapters include exercises and solutions to selected must are given at the back of the book.

Both books make extensive use of flowcharts us no aid to program-ming but the conventious used are not identical. Each includes a summary of the language for reference nurposes and both authors discuss the issues of program design an maintenance.

It is interesting to compare the different orders in which the troduced in the two books. Eagle's starts right off with the "fur" state-ment while in Hartley's book the "for" statement is not introduced until he has demonstrated that its the students never to use it. Hartley introduces input/output mure gently hus covers it more thoroughly. Both authors leave matrix uperations, me of the nure powerful features of BASIC, to the end.

As the subtitle indicates, Hartley's

On structural theory

Structural Mechanics by Andrew C. Palmer Clatentoo Press: Oxford University Press, £7.00 ISBN 0 19 856127 X

Of the subjects taught at an under-graduate level in civil engineering graduate level in civil engineering courses the related topics of structural and solid mechanics appear to present most difficalty and one of the reasons for this may be than the basic concepts of the subjects are obserred by the number of methods taught for the solinium of various problems. Mr Pulmer's funk has been written becouse of this and the text is to he recummended not least for its clarity in expressing the fundamental principles of structural mechanics. tural mechanics.

The first half of the book is devated to the 11vd hasic concepts of equilibrium of forces und con-

In the chapter on the duformation structures the deflections of plujointed frames and of hours are discussed without explicitly develop-ing the relationship between these displacements and the corresponding forces, this being considered a part of solid mechanics. The methods treated are the deflection diogram for frames, and Macauley's method

The cure of the book is concentrated in the following two chapters where the ideas of equilibrium and compatibility are developed into the onest important and fuscionting principle of virtual work. Except in specialist texts in energy nethods, the cuncept of virtual twirk has, as paribility of deformations. In the section on equilibrium, the basic conditions for equilibrium of the camplete structure are described, followed by a discussion of the forces set up in the individual members of pin-jainted frunces. For this

latter treatment the standard methods of line, sections, and tensism coefficients are described, regular with the conditions for statical determinacy. A description of the forces in neams is then given together with the relationship between them.

In the chapter on the dufarmation of the development of the determinate and indeterminate and indeterminate. minate nature.

The remainder of the hook in chides a short chapter on the speciul results applicable tu linear structures, unil tun chamers de-taled to the fundamental concepta of plastic theory and column subility. Each chapter ends with a selection of problems and the hook s illustrated, in addition to strucn onniber of photographs of real structures antensble to solution by

The author has written here a clear, readable account of the basic concepts of structurol mechanica with a good balance between the mathematical and physical develop orent, which makes s worthy con tribution to the texts on structure

D. J. Just

Computing and the programmer

advantages.

The polot of view of a prugrommer. The preface presumes that the drawing flow-charts and writing programs in a high level land guige. It is therefore fair that any large shauld consider it from this shauld consider it from this well-established. Field a harmonly delication field of the context of motion of the trade of a programmer ware for making effective use of a computer. The hook takes a norrow view of the field of computing from the grammer away from coding and necessary from the field of computing from the grammer away from coding and necessary from the polymers. The hook takes a norrow view of the field of computing from the grammer away from coding and necessary from the polymers. The professional programmer is a computer. The hook takes a norrow view of the field of computing from the grammer away from coding and necessary from the polymers. The professional professi

A Practiced Approach to computing by W. Y. Arms, J. E. Baker and R. I. Pengelly

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Trimmer

decaulay and the Whig Tradition by Joseph flaothurger University of Chicago Press, £13.15 ISBN II 226 31472 3

Undergraduates studying history, threatened with examination most tions on historingraphy, read hunks about Macaniloy. Their seniors, it must be presumed, read his non-writings us well us his commenments, in preparation for their imagural lectures, erticles in the colour supplements, and offerings on the art, method, practice as science of listory. Professor Humburger's hook emphotically stakes a burger's hook emphotically stakes a clein for a place in the catena of works to which such disquisitions necessarily refor.

necessarily refor.

He emphasizes certain asperts of
Alacaday's tibuling which are not
always emphasized. The historian was not so runvinced as is sume times ossimed of the benefits and inevitability of progress. He appreciated in principle, even If he often furgot in practice, that the preoccupations of his own age ought not in dominate his view of the post. He brought to his historical writing the instincts and understanding of the process. writing the instincts such inderstanding of the proctical politician.

Most importont, "Macauloy's intense portismship and his byalty
to his party have obscured the extent of his bellef in trimming." He
became a Whig only because he had
first become o trimmer. He had
ough to do with identifying Whiggism and trimming in history, philosophy and oction.

sophy and oction. Hence he admired Halifax, "the Irininer of trimmers", and the part he played in the Revolution of 1688. "The trimming theme", according to Hamhurger, "provides an under-lying structure and coherence, over if not perfect unity, to what | Maconlay | did as both essayist and historian, as man of letters and as pulitician". The book therefore chollenges "the familiar, almost the

historian, as man of letters and as pulitician." The book therefore chollenges "the familiar, almost the standard, interpretation of Macanalay". "particularly that part of it that uses the labels Whig and litteral Whig in a way that gives an recognition to the trimming component in his thinking."

Hamburger undermines combidence in the merits of his case by making errors of fact, by displaying ouivety about Maraulay's intellectial formation, and by mishandling evidence as well as erganent. He thinks "the infamous Six Acts were on the statute books for six months in 1819", when in fart three of them are still there, and the first only inpsed in 1822. He assumes that the "Ultra" or "Eldonine" Tories controlled Livery pool's Ministry in the 1820s. He has "Lord John Russell" dying dramotically in 1869—nloe years too snon. "Threydides", he judiciously informs us, "though one of the ancients, earned Mocanloy's commendation." Macouloy's admiration for Hollfax, "elmost without qualification on page 92, is "unqualified" by poge 182; but in an endnote on page 221 we learn that in 1828 Macculey placed him "In a large class of corrupt men". Homburger quotes Macanley's record of "reading again most of Burke's works — Admireble—the greatest men since Milton". Evidently Moceulay hed for a moment forgotten. Hollfax, For, while "Burke's influence on Mocanley's record of "reading again most of Burke's works — Admireble—the greatest men since Milton". Evidently Moceulay hed for a moment forgotten. Hollfax, For, while "Burke's influence on Mocanley's record in "stemoning from Halifax—alhein" not a sharply defined intellectinal tradition"—which "sought e-principled fortlongle "for, "strim, ming responses". With that quality of logic of hie command, Hamburger has no trouble in grotsquely exaggeratiog Hellfex's influence on Macanleys and in legication of the command, Hamburger has no trouble in grotsquely exaggeration of the legication of the surface of Macanley and in legication to the surface of Macanley.

ot logic of the command, the mourger has no trouble in grotesquely exaggeration Hollfex's influence on Macaulay end in isolating "trimming" as: the historian's creed, inspiration

as the historien's creed, inspiration and rule of conduct.

Perhaps a third of the book, counting the exteneive endnotes, consists of quotations. Most of them are from Maceulay himself, many of them unfomiliar, e few deriving from en unjublished and incomplete History of France which Himburger has been instrumental in discovering. New insteriel is also presented from the dieries of the 7th Earl of Carliele. Those undergraduates end teachers who can efford to pay neorly 5n per page will be grateful for edditions to their granal of Macaulay quotations. But they will hardly be persuaded, by Hamburger's obtuse advances, to adopt his whole interpretation.

Political parallel

This is a study of Unudhi's activities during one of the most important and interesting periods of madern Indish history, a time that saw the largest austained outbreak of papalar ughtofion against British rule led by the Indian Nathural Congress and plonned by the Mahatma himself.

Gaudhi was, without doubt, one of the most important figures of the time—the chief mediator and manipulator of central Congress politics, the sole theoretician of civil disphedience and the one-man cirl dismedience and the one-man nationalist delegation to constitutional conferences in London. This study of his rule works well as political hiography. The Mahmun's intellectual development and the events in which he was personally involved—the complex negotiations with the British in 1930 and 1931, for example—are well envered.

The book's weakness is that Dr Brown seems to have little idea of the context in which Guidhi's actithe context in which Gundhi's activities should be set. While she is prepared to admit that Gandhi was not as oll-powerful as his hagiographers have claimed, she still sets out a "great mon" Interpretation of civil disubedience and the other events of the period. As new work on British policy, on the activities of other political groups and, most important of all, on local and provincial political and economic developments is written in, this viewpoint becomes more and more difficult to sustain. cult to sustain.

Differences in interpretation be- adequate account. tween those who approach Indian political history from the top down

Gandhi and Civil Disobedience: The Mahatma in Indian Polities 19281934
by Judith M. Brown
Cambridge University Press, £15.50
1 SBN-0 521 21279 0

and thuse who work from a limition up are probably inearly Yet Brown singularly folls from the revide an approach by which a differences might be minimized this respect she offers only held of "subrunt cactors" acting at a many the mass of provincial and those who work from a limition up are probably inearly the Brown singularly folls from a limition up are probably inearly the state of the second state of the second singularly folls from a limition up are probably inearly the second singularly folls from a limition up are probably inearly the second singularly folls from a limition up are probably inearly the second singularly folls from a limition up are probably inearly the second singularly folls from a limition up are probably inearly the second singularly folls from a limition up are probably inearly the second singularly folls from a singularly fo and the mass of provincial and he political activists. This onehe the same as that used in her network (Gandhi's Rise to Pace todion Politics 1915-1922, toloridge University Press, 1925, was innedequate then and it as more sa now.

In view of recent events is parties book's publication of bardly bave been better fined a parallels between the 2002 history of 1928-34 and 1974 reinniguing. In 1930, os in 1501 nuti-government agitation lidb spiritually oriented figure was resulted in repressive measured a virtual suspension of density processes. In 1934, as in 1946. increasingly irresponsible ula history of India in the cody with the cody of anything, even indramatic and tempostuous that of recont mouths. The studies can help us to assess etenti wher times when the staptic lines of institutional figures. party structures and patronge works seem inadequate kin ticularly infortunate, then that the author of this book we to have bitten off more that ean chew. Even the most ods futian political development of cyclical theory of history will hard to remin their interest is reading this long and detailed, strangely flat and somewhar

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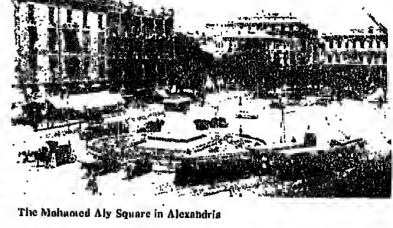
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A complex and private poet

Cavafy's Alexandriu: Study of Myth lit Progress by Edmund Keeley Hogorth Press, £7.50 ISBN 0 7012 0415

Since Cavofy's death in 1933 his reputation has steadily risen, and his poetry has been justly praised for its sophisticated and ironle wit, its clarity of vision, its mericulous craftsmanship and economy of lorn: but it was also long regarded as something of no elegant unachrous, and a beckweter in the mainnism, and a beckweter in the ministream of twentieth-century Greek
literature. Sir Maurica Bowro and
George Seferis were the first two
critics to recognize Cavoly's true
originolity, oud to place his nchievement in the modern moetic revolution; one Professor Keeley's detailed analysis of the moems carries
this critical insight substantially
further.



understand in the light of the very miled analysis of the poens carries this crinical insight substantially further.

To the fareign reader with the silightest knawledge of the Greek language, classical or modern, Cavidy appears by fair the ensicet of twendeth-century Greek poets to understand. His vorabulary is foultan lyricol, the structure of his verse and its organization of the sense is straightforward: in short, each poem appears to meon exacely what is soys. But only appears to seferis has rightly described him us the most difficult poet of contemporary Greece; the difficulty is encountered not to the language but in the feet that the reoder (Greek or foreign) can so easily fail to penetrate tha multiple layers of meaning which ench poem contains, or to perceive the relotion of the individual poem to Cavafy's wurk as a whole. unusual pattern of the poet's career.

Cavaly's poems have usually been grouped into three categories: the philosophical—mostly representing his work up to 1911, the erotic, and the historical. This is a facually correct but rather superificial clossification and the hospital most. fication, and it is the special merit of Keeley's book that his analysis goes deeper and uncovere a more significant "figure in the carnet".

He treces Cevaly's evolution from those early poems, such as Candles, Monotony, Walls, Windows, which express a Bendelairean mood of express o Beudelairean mood of claustrophobio, emand mid despole, and culminete in the famous The City—"This rity (Aloxandris) will olways nursue you." But by this stage, 1910 (aged 47), the poet can objectify the city and drametize it, make it the foundation for the historical and mythical Alexandria, an imaginative effort to which Cavafy devotes the next decode of his development. During the same period Cavafy juxtaposee his erotic poems, such as On The Stoirs or The Afternoon Sun, which ore set

in "the Sensual City", the shabby Waste Land of contemporary Alexandria. In his cauge, both geographically and chronologically, so as to lockede the Greeks of Asia Minar (thereby, incidentally, more subtly defining the Hellenism of Alexandriat and finally to encompass a still broader vision of the horom predicament, the poignancy of memory the transcience of the hedonist's desiderate, the instort hedonist's desiderate, the importance of facing the truth of one's

own situation.

In one respect only, the system of textual references, is Caouju's Alexandria less than illuminating. It comploments and chould be reed together with the outhor's excellent translation of the Collected Poems, the text of which followed closely the posthumous 1935 edition, and likewise contained 153 poems. But the two appendices of the present book, which errange the poems in order of composition and of publication respectively, list only 132 out of the originel 153 (though including a selection of 23 of the unpublished poems). The discrepancy occurs mostly in the early service of poemie written before 1911, and in consequence several well known places such as Che Fece well known places such as Che Fece Il Gron Rifiuto, or The First Step ure omitted without explanation, both from the list and the com-

however in general Keoley hos performed an invaluable service in tracing the poet's deliberate orrongement of his work. In this way such sominal poems as The God Abandous Antony or The City ore revasled in their full themmic importance, while many others when seen in their proper place in the design toke on a significance which they locked in isoletion.

Ian Scott-Kilvert

Binary rhythm

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rl Cannus

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Allawlog: Cannas's death in 1960

Al

minnes of General appeared in the sinker and two Californ in the Californ in t

Mature scepticism

The Sceptical Vision of Molière: a single lifatina—to succeed fully with such an ambigious undortaking, but Porndox log, but Dr McBrido has certainly achieved enough to prompt one to remark also upon soma of the limits.

remark also upon soma of the limite.

Too much of the review of criticism deals with books now 20 to more than 50 years old, enticipated in eoy case by Laurence Romero's recent studies. It is also fair comment that Dr McBride makes his differences with earlier critice cloarer sometimes than his debts: there might have been clearer acknowledgment of Fernandez's concept of n "dodoublement risible de la parception" and of the fact that Daniel Mornet began a once widely reed Molière for studente with an introductory chapter on "Le scopticisme de Molière". From the reader's point of view, however, the important thing is probably that both approachen are fecund enough to support the fuller and often original elaboration they are given here.

I have no doubt either that the

METHUEN (D)

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Enum-a word Professor Kulm prefers to less precise English perms-sis the state of empiness which the soul teels when it is dewhich the soul teek when it is deprived of interea in action, life, and the world. It has often been thought of at a specifically finglish malady—Bandchaire it riouse paper larized it as "spleen"—lun according to Kohn, Voltaite was the first aesthetician of known. From then on, the names on Kohn's illinsyneratic roll of honome are those we would espect to the indissociable from the history of horedom: Plantlert, Lenpardi, Schippenhauer, Handelaire, Rimband and Huysmans, And all the natural heroes—the interious "children of the century"—are there tun: Manfred, Inlien Sarel, and even Lady Mac-

The Demon of Noontide: Eamil in Uwas surprised to find left our of this pantheon is Framentin's Itominique. Heading them all, of the Princelot University Press, £17.40 the prince of th their uge, but more importantly as purhfinders for future generations of distincted accretion. There is a danger, and distincted accretion. I literary malroutents.

Towards the end of the nineteenth century, Kulus argues, Zola and other writers attempted to enforce a violent reaction against count, but this proved to be an interpol struggle, for in the twentieth century, emini hecomes the diminant literary theme. Pransi lases his enthre neitherirs upon count, and "everys the moniment of Republic

Sold and encouraged. Type of literary study is that the

of distorted perspective thoughts a pitfall which Kithi's largely avails, concentrating t dives not so much on antiquity. Middle Ages and the Resign as on the pre-Romante Romana, and post-Romanic cras, high that Kultan Kultan provides some ball clove readings of individual actions portion has portionally impressed by section on Coerke, and his name of the poem "Ta Werther".

The Demon of Noontide is a strongly researched landough is less scupulously checked my readt and is also well illus. Sometimes it is not always otherh sends he is discussing ever, since in his landable to assist the monolingual read translates all titles; it wells lucent a help if he had en original in brackets imme.

These are only minor of though; Kidar's look marbe the definitive treatment d

John Flette

Eccentric theme

The Novels of Max Frisch by Michael nutler

Italier's study of the appearine clearly explains the related work fing Reighort brings on many themes which appear in the large myels and highlights those their protagonusts. The coulds loshinushle to mointain that Broch's pretry will onlive his dramas, so this book (on its dust-incket at least) suggests that Max Frisch's plays may prove loss duroble than his morels. Dr fintler brings many advantages to this study. His wida advantages to this study. His wida bis morels. Di finter brings many advantages to this sindy. His wild frame of literary reference indicates that Frisch is more than a prayinglated or temporary phenomenon; his stylo affords smooth transitions he tween quotation, gloss and analysis; his memphatic enthusiasm makes him a convincing advocate.

The scope of the book is deliberately confined. Those ore fow references to Prisch's plays, except sucide scay?

Figure 25. Di finter brings many had should be should be sensitively analysed.

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In showing how of items, and

The scope of the book is delibered ately confined. Thore ore fow references to Prisch's plays, except Biografia, or to the complex relationship between his diaries and his more formal fiction. All six novels are oxomined, the riwee bost-known in close detail, and oll quototions are accompanied by Binglish translaterions. Sadly, only Hono Faher is now readily available in English (and the 1961 Penguln version of Stillay, as Butlar notes, was, contrary to its claim, abridged). Let

us hope is book will stimulate fure takes the structure of the n as a basis for interpretation of clearly explains the relation between the various liction of futler's study of the apprentice

and shore the author waster words, gand white for money is a full lilling raphy, to should now be edded that Frisch II (Subrkamp, 1975 of 1975 Oxford thesis by M. L. L. 1975 Oxford the same reporting to the same reporting Though fluider persuasively relines the corino that Hamm, in
flown Faher, represents Frisch's
ynlues, his occurut of this work is
largely conventional. Its moral
ambiguities are hypossed nod the
problems of narronum ir pases ore
relegated to a footnote.

Frisch // (Suhrkamp, 1970 w.
1975 Oxford thesis by M. J. L. ham (passibly, and regretable, available ro the ambor). A salicy of the more distribution of the problems of the

A literary period piece

inslat that the literacy historian should be the prisoner of his dates his such a case. For reasons which are not entirely clear, howaver, is schiller has been excluded from the present company, a docision which reflects tha fact that we have, in this rase, nor so much a history of that pariod, from which we might expect new halfats hit of the meaning of, corms like Sentimentalism, Roccoo and Stam and Drong (all reasonably competence account of the might of which are freely used), as a reasonably competence account of the might of within the relevant period of time.

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Draug: chapter deals with the relevant period of time.

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by Priedlielm Railandt
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It seems doubly appropriate than before seating the light of day, this translation is before seating the light of day, this translation should have gene translation should have gene translation should have gene translation should have gene translation so one of Rimperiod of working os one of Rimperiod of working to one of Beckett's in Iroland, with o friend of Beckett's in Iroland, with o friend of Beckett's in Iroland, folded owey instde the pages of a folded owey instde he pages of a folded owey instead the pages of a folded owey instde he pages of a folded owey instead the pages of a folded a measure of the folds hefore finally canning an integral page of the contained the pages of the contained th

His drama separate from his life

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This beamiful book comains 23 essays by the line Ruymond Pleurd collected by his friends and colleagues, Less than hulf were originally published in porludicula which con reasonably he expected to be available in most university libraries; three are previously mipublished; and two others have never before uppeared in French. Thlerry Maulnier has emurillated s profoce, and there are eight pages of plotes and a Picard hibliu-

The collection has three sections.
The first, in which Pleard is not surprisingly of his strangest, constrons, Racios. We discover why the whole of Racine's dromatic untiput—ualke that of others, even consile—has survived into the invenieth cantury (though I dispute his daniel of any poetic quality in Sattre's Huis clos); no learn how much Racine valued his career as a courtier; we read of his travels; we examine his relationship with Port-Royal, In each of those essays Pirogd, explicitly or implicitly, that, that Rarine's theatre cuttons is allsfactorily be explained by an occurre decoenstrates that



Racine's theatre, hexplirable by the study of Racine the num, contot be explained even by reference to his own critical writings.

own critical writings.

The second section deals with the works of other notions. On L'Ecole des feunoes there is one of Picard's less persunsive arguments, that Arnolphe is truly comie; Turtuffe receives a soporitic if perfectly defensible commentary. The ubbé Prévost and Modama de Lafayette, however, merit closely reasoned arguments: in particular, the essay on La Princesse de Clèves exhibits the impressive oblity to enlighten by the skilful laterpretation of the obriums.

The third and shortest section contains Picard's writings on Ilterature and the visual arts. There is evident cutilusiasm for what is to a certain extent a different areno; even so, it is when an relatively familiar territory ("Rucine et Chauveou", contrasting the simplicity of Rocine's plays and the sensationalism of his filmsumors), that Picard is othis most conviocing. Other essays discuss to Tour, to Brun, Mignard and the Parthenou.

While devotees of Racine neight

Brun, Mignard and the Parthenou.

While devotees of Racine ntight have appreciated the inclusion of the remainder of Pleard's shorter pleces on the subject, others will be more than satisfied with what is clearly a febr representation of the breadth of his achievements, containing much which will be accessible to the undergraduete and much which will interest and benefit the specialist.

William Process.

William Brooks

Precocity preserved

with Selections from His word with this image: "the child prodlegy is us of selection of the work with this image: "the child prodlegy is us of selection of the work with this image: "the child prodlegy is us of selection of the work with this image: "the child prodlegy is us of selection of the work with this image: "the child prodlegy is us of selection of the work with this image: "the with work with this image: "the with work with this image: "the with the selection of the work with this image: "the with the selection of the work with this book on the clearly wanted to relate himself to the great witters of the past witter. We see him forcing the was through life, exploiting the was with this hook does not be was mitter. We see him forcing the was through life, exploiting the was with this book does not be was mitter. We see him forcing the was mitter. We see him forcing the was the work with this book does not be was mitter. We see him forcing the was the work him the being seen merely as e wild gening way through life, exploiting from his family, he loved no me: which a streak of cruelty in his rherming. Religiout, what we with this book does not being seen merely as e wild gening was clearly wanted to relate himself to the great witters of the past with the beds of the was committed to his instance. The work here is work have a wear with his work that he clearly wanted to relate himself to the great witters of the past with the learny hand to write a book on Cherles d'Orléans, of difficult poet and certainly not concentrate with the book on Cherles d'Orléans, of difficult poet and certainly not the product of sallonable one. This aspect of sallonable one was minimated to write a book on the his rester of the p

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Neglected giant

Paraconak : A Critical Study by Henry Gifford Combridge University Press, 13.00 ISHN 0 521 21268 X

"Poetry", writes Henry Gifford in the foreword to his richly erudite and stimulating celebration of l'assumating celebration of l'assumating celebration of l'assumating celebration of l'assumating celebration of l'assumation of the Zhivago phonis and the last cycle, When the Weuther Clears (1955-59), Posternak shuwed the last cycle, When the Weuther Clears (1955-59), Posternak shuwed the last cycle, when the Weuther Clears (1955-59), Posternak near manner page 100 phonis and deceptively simple manner page 100 p serves to demnistrate just linw magnificently this has been achieved

Akhmarova (many would add Tyretaeva) are singled nut us poets requarkable for their civilization who had ochreved the proper relation ship with Europeon culture, particle with certain advantages from their own literary inheritance ", one and Russian contemporaries that Pasternak's work is described and approised, as poet, writer of prose, fiction and translator.

The immease learning and perception Professor Gifford brings to his task make this more than lust an introduction to an insufficiently known major poet, although no this level it works extremely well; it is a profoundly illuminating purtrain of an insulting period in Russian cultural history. As a critical study of the man who "enabled a generation to furm and exprose his sensibility" is in unlikely to be superbility" It is unlikely to be superscded for many years to come.

Posternak came to poetry via music end philosophy. Chopin end Scriabin (the latter a family friend who was indirectly responsible for turning Pasternak away from music turning Pasternak away from music as a 'profession') were importent carly influences; Morburg and the teaching of Hermann Cohen also licined form his outlook, and by the summer of 1913 when he seriously ambarked on writing pactry two brilliant curcere had already been rejected. But whereas Pasternak's poetry, though often reflective, is never truly meraphysical in the way that, for example, illiet or Velery can be, it does seem

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the instance of the stance of the sample, the master of an elaborate sentax, an almost recitles uptitude for rhyme, and a specific sentax, an almost recitles uptitude for rhyme, and a specific sentax.

From this confident virtuosity, when Pasternak held undisputed himself to he "essentially one of the most consistent poets in Russian in twentieth century Russia under the most consistent poets in Russia literature, whatever the differences like from and manner. Throughout his life Pasternak's poetry continued to resemble what Marina Tsyetaera and Abhagaya (many would add Tsre-ingaratus). When ingolerable political pres-

sures made the writing of original pretty impossible Posternak mined pirelly impossible Posternak mined to trunslation. Now the mames of Shakespeere, Goethe, Rilke and the Georgion poets become important playing a major part as they did in keeping the poet in touch with a living tradition; Shakespeare in particular helped him to preserve the "inner freedom" that for many he seems to exemplify, indirectly leading him towards the novel. Pasternak's eltempts "to escape from the lyric mode", os he put it, were not altogether successful, were not altogether successful, either in harrative poems of the 1920s liko Lieutendut Schmidt (1926-27) or, indeed, in Doctor Zhivago (published 1957), the work that because him propuls for form

that brought him unsought for fame and eventual martyrdum. The author is careful here, a elsawhere, to avoid the extremes of judgment which have resulted from applying ollen and Inappropriate criteria to a highly individuol and original work; his discussion of the Zhivago poems is porticularly valuable as a corrective to the erraic and extrapagnets calling to this ond extrevagant criticism to which they have been subjected in the

Gifford's study is analytical and comparative. Generous and perceptive in indignent, ho librarinates much hy constont reference to netional tradition and parallel developments elsewhere, the framework for these comparisons being usefully provided in a tripartite chromological tublo (the life of Pasterink, publication of works by him, and other events). The analysis of individual works, like the survey of broader hiographical and artistic trends, is remorkable for its lucidity and depth, extensively illustrated by quotations with, where necessary, plain (but never clumsy) prose translations.

Reviewers

Clievies Chodwick le professor of French et the Uolversity of Aber-

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Idiom indigenous to Spain

The Picaresque by Harry Sieber Methnen, £2,35 and £1,20 SHN B 416 82710 T and \$2720 9

The fiching reading photoe in six-teenth and seventeenth century Emops had a largely Spanish diet, is P. E. Russell rentinted as in Radio 3's Golden Age of Spain festival a few weeks ago. Spain's picaresque movels, like her picaresque novels, like her ronances, were widely translated, ndanted and imitated, and Harry Sieber's book helps us to see why and haw. The tendency to redefine "picaresqua" in 6 way that includes half the norels of the needicth conney while excluding the classic maks of the genre is firmly resisted

area and the statement that fazorilla tent with Sieber's avoyed test de Torthes is picaresque only by on terus, the moral, at the equation of lawles, amusement. Celestian and his underplaying of partially when he discusses origins, is its halancing of the piece and and anti-piece-sque, the latter muse, far nativelished by Siehus's ing its supreme embodimental matter and anti-piece-sque, the latter once embouration of small schularship once entormously popular positions. The fiction-reading public of sixcombination of sound schularship once enormously popular pool and creative insight. It complians a malescaped novels of B. Algorithment of Linguige is specially interesting: he suggests that Locarillo—and by implication the genre as a whole is less a reactine against the remainsters or a mirror of society that the Remainstance, one of the Remainstance, one of the second of the Remainstance.

The second half of the louk lacks in the picarcsque novel musile. Spain: Italy, Germany, France and fingland me shown in diverge from the established national in many seconds. the sample of Stuar Miller's The Picaresque Novel and A. A. Parker's Literature and the Delinquent Ibuilt 1967.

He surveys the origins and development of the genre in Spanish informatively and shrewdly. One could query some features of his

I lumbs, munsement, An attractive feature of this

There are occasional sen-

Goethe as novelist

Goethe and the Novel hy Eric A. Blackoll Cornell University Press, £12,25 16BN 0 8014 0978 0

Such is the widespread ignorance of Geraton literature that, while Germanists may debute oniong themselves how gond a navelist Guethe was, the general reader in this country is likely to express surprise that Guethe was a mivelled of the may have heard of Werther; he may even known few poems that come from Wilhelm Meister's Apprenticeship, but will prohably he unaware of any connexim with a work of marrative fiction. Yet Gaethe wrate four important movels, each one very different in form and purpose and cach one linked with a different singe in his personnal and literary development.

With the appearance of Professor

mot or Volety con be, it does seem to have grown directly from his association with Scriabin, notably in the richness of its polyphonic texture and frequent notes of externia, publication of works, like his extent, Moyokovsky, Pusternak developed a teste for "chaice and artistic trends, is renorkoble for its langlements of alliteration and essentiations and essentiations on the soone which, combined with dislocated images and remote convexions and associations, make much obscure. Motivity came with the obscure, Moyokovsky, Pusternak developed a teste for "chaice of chaice of the properties of the subject of the properties of the properties of the subject of the properties of the properti

including detailed consideration of first versions. The subject also involves a discussion of Goethe's developing attitude to the navel as a literary genre, as expressed in both his theoretical promonurations and the structure of the movels themselves, and—most fascinating of all—a columneheastee account of Goethe's non reading from the internalismal reportory of the navel.

the list ranges from both familiar and absence Geeman cantemporaries in Chinuse novelsts, from movels of the New World to the Daphuis and Chine of pastelassical Greere. Here Blackall draws out the significance of Goethe's comments us well as some of his "sliences" thus o places where he output have been expected to say something has close out in—and relates his read-close out in—and relates his read-close out in the composition of his own movels. Here too is canchesive proof that there was never really a that

describes "

the narrator in Elective Af seems to me to involve & ch. between author and name Apprenticeship to insolve special pleading—he is nest than interesting and single indeed it is no dispersion say that his hook reads role and the say that his hook reads role. one of the finer novels be deritte Charlie the novells 35 # nienke hero whose promitated against the meli-harkermend of the literary in which he responds hobor higher the resident of the service o hig und scholarship, deranged the nearly 50 pages of soles and of the book which small things; provide useful mare infinites and critical opinion further delute of some of the thirty and the critical opinion and the tribut and the critical opinion and the cr

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HISTORY-Lectureships in Modern History (Two) The Department is interested in appointing lecturers in the following fields: Europo since 1800; Australian Hie-lory and Modern Latin American History.

OPTOMETRY-Lectureship-Department of Psychology Applicants should have a higher degree and an opiometric qualification that would oflow them to be registered as optometriate in New Zealand. Special interests in optics or physiological optics would be on silventage eithough applicants with allier interests would be considered. Applicants should be willing to undertake clinical supervision in addition to teaching.

ITALIAN-Lectureehip-Dapariment of Romance

Applicants must hold an Hamoure degree in Italian and should state their special interests and qualifications. Applicants with academic and research interests in any field of Italian language or increature may apply.

The Lecturer will be required to teach Italian language, and literature with the rengo from First Year to Honoure.

BRADFORD THE UNIVERSITY

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PURPOSES AND COMMUNICATION

PSYCHOLDOY Applications are invited for the clove post, the first reseastibility of which in for the ching social psychology in the hiteraleologithms School of Human Parposen and Communication. Applicants with interests to derelogithms with interests to derelogithms and personality psychology will also be rensidered.

Oslary willlin scale : \$3,335 to £6,455, per annum Soper-

Souther ophiliculars and an-plication forms the be returned by 27 May 1977; obtainable from the fregister, Post ref-til L. 9-7)! University of gradings, Wost Yorkshire, RD7 LD9.

CARDIFF UNIVERSITY . COLLEGO DEPARTMENT OF

LECTUREN IN DEGGRAPHY Apalications are invited from candidates with injersels in affect or Human Geography. A knowledge elegabilishing lockingues would be on industringe. Salory range: 25-353-28.658 por annum. Duties is commones, is Ocluber 1977.

Applications 12 copiess, toticher with the names and addissen of two relurest, should
be forwerded to the VicePrincipal (Administration) and
Resistrat, University College,
P.O. Box 78. Cardiff, Cir's
1XL. From whom further parlicitiats may be obtained.

Closing dole 20th May 1977 Please quals reference 1255.



study, and its team traching. The School of Hamanities is seeking to suggest its health staff carle in 1978 and applications are invited from suitably qualified men and women for the following occasions.

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University of Melbourna

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SENIOR LECTURER

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University of Sydney LECTURER IN PROSTHETIC DENTISTRY

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May 21, 1977.

MacQuarie University SENIOR LECTURERS/ **LECTURERS IN LAW**

Behoof of Law The School of Law cotamonesal traching Inflorme and external students in March, 1975. Built degree courses have been approved by the Supreme Court of New South Water for the DESSESS OF Administration.

purposes of attinished to practice. A manufer of positions will be available in 1978 as the more advanced subjects in the law, corriculum are introduced. The successful application will have the opportunity to take part in planning and leaching these previous experienced in any field are invoted to apply. Experience in one or more of the tallowing lields would be an advantage: Continered I aw; Fourpany Law, Land Law; Industrial Law; Equity or Lifepatton, Applicants perfectably should have an homour degree or application approximation of the property of the part of the part of application postgraduate or application.

SENIOR LECTURER LECTURER IN **ACTUARIAL STUDIES** Bohoel of Frenamic and Financial 2.udies

Acinatios. June 24, 1977.

SENIOR LECTURERS/ **LECTURERS** SCHOOL. OF HUMANITIES Oriffith University, the second University to litishane and the third in Queensland, corolled its first graduate students in

the core of the clinked training programs.

Qualifications: A Ph. 13, for equivalent flugither with experience in Clinical Neuropsychology. It is hoped that the successful applicant will be able to take in the appointment as some or possible. SALARY: \$A13,830 to \$A18,389 for Lectures, \$A18,793 in \$A22,010 for Senior Escrete, May 31, 1977. ils that graduate students in 1971, and concurrenced undergraduate teaching in 1975, The Section of Humanities admits 100-150 tuit-time undergraduates each year. The University is companied in lour problem-oriented schools, and is committed to multidisciplinary

Coláiste na heliscolle, Corcaigh UNIVERSITY GOLLEGE CORK

The Governing Body Invites epplications for tull-lims

Applied Psychology Archaeology Law (2 posts) Mathematics Modern History Statistics (2 posts)

Appointments will be made at alther Assistant Lacturer or College Lecturer level, eccording to the queli-ticetions and experience of the euocessiul carididelee. The selety scales (as on 1 April, 1977) are:
College Lecturer £4,720-£5,658—Bat-£5,940-£7,119

Adeletant Lacturer £4,052-£4,431 p.e. Application form and further datalis of the posts may be obtained from the undereigned. Latast data for receipt of applications is Wednesdey, 1 June, 1977. M. F. Kelleher, Secretery.

UNIVERSITY OF GUYANA

SUPPLEMENT ILLS

Vacancies-Department of Health Sciences

Applications are invited for the following position the Dept. of Thealth Sciences.

1. LECTURER IN PHARMACEUTICS

To be responsible for the Courses to Pharmaceulor, the Diploma in Pharmacy programme. This will had lectures in Pharmaceulor I and Pharmaceulor II supervision of the practical sections.

Applicants must have a good first degree in Pharmaceulor II supervision of the practical sections.

2. LECTURER IN PHARMACOLOGY

The responsible for the courses in Pharmacology the Diphona in Pharmacology I and Pharmacology II are hortures in Pharmacology I and Pharmacology II as supervision of the peacified as along Apollogous must have a good that degree in Pharmacology with additional or equivalent qualification in Pharmacology and relevant post-qualification experience.

3. LECTURERUIN PHARMACEUTICAL CHEMISTRY

To be responsible for the rouses to Pharmace. Chemistry in the Diploma in Pharmacy programme, will include fectures in Pharmaceutical Chemistry 1:2 Pharmaceutical Chemistry II and supervision of the macal sex long for these courses. Applicants until layer a good first degree in Physics or Chemistry with additional or equivalent qualifies, Pharmacentical chemistry and relevant post-qualities,

4. LECTURER IN MICROBIOLOGY AND RAEMATOLOGY

To be responsible for the courses in Microbioles, Haemanology in the Certificate in Modical Technology gramme. This will include tectures in Microbiology, Haemanology and the supervision of the practical set for these courses.

Applicants must have a good first degree or equivigualification and relevant post-qualification experience.

5. LECTURER IN HISTOPATHOLOGY To be responsible for the course in Histopatholan the Cerifficate in Medical Technology programme, The include lectures in Histopathology and the superfield the practical sessions for the course.

The apprinter will be expected to ossist to de areas in the Certificate programme in which be might qualified.

Applicants must have the FLAHT or equivalent qualities. Applicants thus have the FLAIT or equivalent extention in Historiathology and relevant post-qualified experience.

SALABY SCALE (Per annum)
Lecture:— UA3: G>9,000 x \$180 — \$14,760 (0.88 — G\$2.55).

The pubri of entry on the scale will be determined quelifications and experience.

Benefits include housing allowance, contributory peak and Medical Schemes. Anyone revealed from oversely receive up to four full economy air massages (i.e. for it self, wife and miniarried children up to eighteen gard age) from judal of recruitment, limited remotal especial a settling-in allowance.

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THE OPEN UNIVERSITY INSTITUTE OF EDUCATIONAL

TECHNOLOGY Acting Director: Professor D. N. Lowis

STUDENT ASSESSMENT RESEARCH GROUP

Applications are invited for the following posts in M Inciliuse's Student Assessment Research Group (Heri-Or C. J. Byrne).

1. LECTURER

In Bludeni Aseossmoni 2. RESEARCH ASSISTANT

In Bludent Assessment The euoceesiut condidete for the fecturer post will make The successful condidets for the tecturer post will lake research simed at improving the design, consider the research simed at improving the design, consider the research sime and exeminations. In work will antell both conceptual and ampirical research with antell both conceptual and ampirical research with an end-production of manufacturers and production of the production of manufacturers and production of the production of manufacturers and production of the production

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The Research eeelelent will provide eeelslenes with the control of the work degriced. The successful cendides could be considered for envolvent in a higher degree programme in the Open University

the Open University.

Applicants for the fecturer poel are likely to have a high Applicants for the fecturer poet are likely to have a higher degree in Education with special reterence to (1) seems ment and its relation to the curriculum; (2) resembly methods. A good working knowledge of Philosophy (spitalemology, philosophy of eclanes) and/of Psychology (human learning, cognitive styles) would be a story recommandation so would be preclicat experience in developing tests. Teaching experience is highly designed to the story of the stor

Applications for the research essistent post should but quelifications in all less some of the area tisted should and, preferably, suitable experience.

Each post is on a two-year contract of the Open University, Million Keynes. Sacondaryl is possible. Sability. Million Keynes. Sacondaryl is possible. Sacondaryl is possible.

Lecturer £3.333 to £6.655, Research Assessed £4.109, plus USS benefits.

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Universities continued

UNIVERSITY OF TRONDHEIM

College of Arts and Science

TEMPORARY

SENIOR LECTURESHIP

There is vacant a temporary school lecture-hip in MODERN ENGLISH in the Department of English. The appointment will be made for a period of one year from August 1, 1977.

The successful applicant is expected to take an active interest in research in Mothern English language, site/he build be able to teach at the post-graduate level aid to supervise theses for the Master's degree. The appointment is subject to the conditions leading for public offices.

The appointed is expected to take pair in examination, without further returneration. Annual value it at present N.kr. 106,278 (approx. 111,685).

Applicants are evaluated both on professional qualifications and on the basis of research and other scholarly work.

The application should give first details of educational background and professional career, and should be accompanied by critical copies of restance to the scholar exercise.

Applications, containing the mains of 3 referees (who should write direct for the University on Trondicing, College of alterest and Science, Personalaythelingen, 2000 Trondicing, Norway, should be postmarked on later than May 30, 1977.

Colaiste Na H Oliscoile Corcaigh UNIVERSITY COLLEGE, CORK

The governing body invites applications for littline posts

Dairy and Food Microbiology **Electrical Engineering** Physiology

Appointments will be made ni either Assistant Lecturer or College Lecturer level according to the quelifications and axperience of the successini cendidales.
The ealery scales (es on 1 April, 1977) Ate:
College Lacturer £4,720-£5,858 — Ber — £5,949-£7,119

Assistant Lecturer £4,052-£4,431 p.a. Commencing salaries above the manner may apply in the case of appointees with special professional experience. Application forms and Jurillar details of the posts may be ablained from the undersigned. Latest dels for raceipt of applications in Friday, 3 June,

M. F. KELLEHER, Socialary

Colaiste Na H Ollscolle Corcaigh UNIVERSITY COLLEGE CORK

Music Department

TWO FULL-TIME POSTS

The governing body invites applications for two lill-time posts in the department of music. One appointment will be meda at the grade of statutory facturer and one at alther assistant facturer or college facturer level. Should an appointment at statutory facturer level not be made, by the special media. wo appointments at essistent lecturer or collage lecturer level mey be mede.

The selery sceles (es on 1 Apiil, 1977) ere :---Stelulory Lecturer £6,187-£8,270 p.e. College Lecturer £4,720-£5,658—Bar—£5,940-£7,119 p.e. Assistant Lacturer £4,052-£4,431 p.s.

Commencing seleries above the minima mey apply in the case of eppointees with spaciel professional experience.
Application forms and further detelle of the poste may be obtained from the undersigned. Latest date for receipt of applications is Friday 3 June, 1977.

M. F. KELLE-PRI Secretary.

CARDIFF

UNIVERSITY COLLEGE MECHANICAL ENGINEERING AND ENERGY STUDIES RESEARCH ASSISTANT

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ASSISTANT **ACCOUNTANT** An Aparlant Accountant is required to the charge of powerfly superanduction and insuring a operations of the University. The payodi covers 1,100 minployees on those computed to the covers does not superanduction on an ESSU type Date of the aparlaments.

UNIVERSITY OF

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BAYERO UNIVERSITY

COLLEGE-NIGERIA

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Three-yeer appointment

from July 1978 !

Selary : £3333 to £6655 ::

Requests [quoting Ref. THES] for dotalls and application form in Personnel Scotton (Assdemic) UWIST, Cardiff CF1 3NU.

Closing Colq : 10 June, 1977 .

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THE HINIVEHBITY HOLLECS

OCPARIMENT OF ECONOMICS

Applications are invited for the sat of temporary LEC-FLHER in ECONOMICS, leg-oble for any year, from 1.10.77.

Salory in lower half of scale .23,353 in Co.656.

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MARITIME STUDIES

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THE UNIVERSITY OF THE WEST INDIES-TRINIDAD

MENT OF CIVIL ENGINEERING ONE SENIOR LECTURER. TWO IFCTUBERS!

ABOISTANT LECTURERS IN CONSTRUCTION ENGINEERING AND MANAGEMENT ONE LECTURER/

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1975/77 17524 (24-33,390 p.e.
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UNIVERSITY OF NAIROBI---KENYA

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Applicants should have a good degree or equivalent in the field of Graphic Ceclum, plus a phelgraduete qualification or substantial orperience in leachings at university love. Preference will be given to those who have a sound knowledge of Typegraphy and Lettering with a good knowledge of Phetographic Tethratures and procedures. A keen sense of 2-0 Graphic Cestign, Layout, Pestering and Adverteement Media.

Techniques will be o great adventage.

Solery Geeles: Kt1,800-Kt3,600 p.e. (Kt1-E1.89 aterling). These le usikely to be supplementation of safety for this post. PSSU; lemity pestages: various allowence. Destited explications (two copies) including a Gualdulum vite. and naming three relates should be sent by air mail not teler than 5 June, 1877. To the Regioter, (Recraitment and Trainfed, Uniterelly of Names, Politicals resident in (Kanyas, Aprilicants resident in (Kanyas, Aprilicants resident in (Kanyas, Aprilicants resident in (Kanyas, Aprilicants resident in Tellanters, Court Road, London Wiff Oot, Further partiquiers may be obtained from either addits.

MASSEY UNIVERSITY PAPUA NEW GUINEA Pelmeraton North.

Now Zoaland SENIOR LECTURER/ LECTURER IN **ECONOMICS**

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Appointments to lectureships are normally for a three year trains torn with renewal by multiple agreement. Sulary Semin NZ\$11,665-313-615, NZ\$9,365-511-465,

M200, 365-511 A65. Further dormer, at the position, together with tenderons of appointment may use obtained from the Association of American March 18 (Artes). It for don't quarter the former together of the Company Applications close en 24 Juns, 1811;

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THE UNIVERSITY OF THE RENT WEST RUNES—TRIRIDAD

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Applications are invited to appointment from October 1, 1977 to a Lecture-dip in the Department of Philosophy, logic and Scientific Victoria, An interest to the metabolicings of the Social Sciences may be The appointment will be an into subary scale for left of \$5,356 - \$6,655 a year londer of \$6,557 a year London Objects of a seesang the blacking bases of consideration and object in the subary subary of consideration will be global object.

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Applications are invited for the 1983 of 1.131 United for the 1983 of 1.13 LONDON THE UNIVENSITY KING'S COLLEGE Sulary on scale £3,333---26.63.

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May 1977. THE NORTHERN IRELAND POLYTECHNIC ULSTER COLLEGE

Faculty of the Arts

READER IN ENGLISH LITERATURE

Candidates should have research experience and publica-Ilous. They should also have experience of supervising

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The person appointed will easiet in the tenching of conti-liceted and non-catillicated work and in the development and running of short courses in both the Public and

Cundidates should ideally have substantial industrial/ Iralning experience and possess in appropriata academic qualification. He/sha will be expected to underlinke a significant workload immediately and have the ability to raiala maaningfully to axpatiancad managers.

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LECTURER II or SENIOR LECTURER-LAW Applicents must have an Honours Dagrae in Law and an misiasm for teaching. In addition some of the following would be an advantage:

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An opportunity for a Marine Engineer to widen his axpariance by leaching appropriate subjects at virious levels within the School of Maritima Studies.

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The Establishment Oilicer, Uisler College, The Northern Irelend Polytechnic, Jordenstown, Newtownebbay, Co Antrim BT37 0QB.

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Sciences

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Course and other courage being
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Applicants much be State Registered
Nursen preferably with a degree in
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The person appointed should be inlerested in and proterably expuridened in research into nursing prectice.

Apppintment from 1st Geptomber. 1977, with a possible extension to the Senior Lecturor Scale LECTURER II IN COMPUTER

Applicants should have a good degree in a relevant decipine and maperiance in the design of scientific/engineering or seminately. llo/engineering or commercial onla processing experience will be an advaniage but training on an in-musice beale will be given it necessary. LECTURER II IN

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LIVERPOOL POLYTECHNIC

DEPARTMENT OF MECHANICAL, MARINE AND PRODUCTION ENGINEERING RESEARCH ASSISTANTSHIPS

RESEARCH ASSISTANISHIPS

Two posts are available —

One obstained is required to intilled develop work clarifed in the department to the deletion of the continuous management of the product class of plannestrous and planneshale products must be symbolished to make the under the supervision of Or Is. Helland (belopions 981-207 3581).

The second assistant is required when its study the planics and mechanics of limit streeting grinding processes or to diskly the dynamic characteristic of remains distingted for hybrid hybridistric and hybrid speciation. The record assistant will be supervised by St. W. B. Rowe [Helland 951-207 3501]. The appointments are for two years, starting October, 1977, with a probable extension to these years. The appointment will be expected to register for a higher degree. Salary: \$2,127 to \$2,529 pine \$2312 ps. SCIENCE RESEARCH CDUNCIL POSTS

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The Stelence Research Council is prepared thin yes to often to studenties. Research Studenties and Advanced Course Studentships in the above Department Applicants wishing to study for McPhal and PhD by research should have an interest in one of the following general fields—
Typhology, Machanism Science, Blo-Englineering, Prominite Conveying, Stress Analysis, Malerials Science, in addition a one-year MSC course in Machanisms and Machines is offered, Commencing in September, 1877.

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There are elso opportunition for industrially fused caratidates to register for titled or PaC if completed on Applications are invited from gradience in Engineering. Physics or Mathematics for productional confinent having equivalent qualifications) and informal enough the three discoverings. Programming the second confinence of the production of DEPARTMENT OF PHYSICAL EQUICATION

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RESEARCH ASSISTANT IN SPORTS SCIENCE
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REGEARCH ASSISTANTSHIP
Applications are Invited for a Research Assistantiable to work on the leading occlose of weding bilds on the Ribble Celuary. the Ribble Caluary.

Applicants should possess a good Honours degree in a Stolegical Subject and have a good knowledge of birds.

The successful applicant will work under the direction of Or W. O. Hele, and will be expected to register the degree of PhO of CNAA. Supervisor: Or W. O. Hele (leiphone 951-207 3651, asismalon 436).

Salory: \$2,127 to \$2,529 plus \$312 ps. Pigace quote reference LP 19299/17 [THES] with all applications.

Application forms and further politiculars are evolution from the Parsonnel Office, Livespeel Polytechnie, Richmond House, I Rumford Piece, Livespeel L3 SRH (lelephone 691-227 5581, extension 43). Closing date is fourteen days from the appearance of this advertisement.

COUNTY OF CLEVELAND

THE POLYTECHNIC

APPOINTMENT OF

DIRECTOR DESIGNATE

(Residvertisenicai)

Applications are invited from persons with proven acodemic and/or industrial experience and administrative ability for the post of Director of the Polytechnic, the institution of higher education in Cleveland which is to be formed from the merger of the Teesside Polytechnic and the Teesside College of Education.

The target date for the merger is JANUARY, 1978 and the Authority intends in fill the past as soon as possible so that the person appointed can take a full part in the planning process.

The Appointing Committee will include representatives of the Governors of the Teesside Polyteclaric, the Governors of the Teesside College of Education, the Clevoland Education Committee and two representations for the Committee and two representations are contained to the Committee and the Committee and two representations are contained to the Committee and the Committee istives from the neadentic world.

SALARY SCALE: £12,180 (+ £180 supplement) Application forms and further particulars from the County Education Officer, Education Offices, to whom specifications should be returned by 17th

RICHMOND COLLEGE

TUTOR IN **ENGLISH**

The Governora invita opplications for the post of Tulor in English in this rapidly devoloping independent Collegs of Higher Education, which is licansed to eward the AA Higher Education, which is licansed to eward the AA degrae by the Board of Higher Education in Washington and has a multinational student body of

The Tutor in English is required to teach 16 hours per week of ramedial English language courses, mainly written English to foreign aludents. Cendidetea must have have a good degree and leaching qualifications logether with relevant teaching experience.

Selary ecsle : £3,500-£4,000

Application forms mey be obtained from the Principal, Richmond, College, Ousans Rd., Richmond, Surrey, 1919 6JP, and should be returned as soon as pos-

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DEPARTMENT OF LAW

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Applications are invited in-the above post which is readile for up to three years from Sep-tender 1, 1977. A felicanto should have a smoot innourse degree in law, logother with an appropriate peak-ground quali-ication and experience of logo-tements. Salare: Kl.208 by Kl.20 (23) to Kl.207 by Kl.44 lo Kl.608 by blue has any supplement, pins London law and the salare will law and the salare red to pursue a research inferior to pursue a research inferior to the salare to the first and the salare law working as a mounter of a departmental receipt in the salare to the salar

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(Salary 23.744 to 20.628) llousered loc September 1977 or January 1978. Full limo appointment.
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SCHOOL OF BUSINESS AND SOCIAL STUDIES

LECTURER II/SENIOR LECTURER IN LAW

The successful applicant will be required to leach Law end to contribute to course development in a variety of courses, including BEC Cartilicate and Diplomas, the Diploms in Higher Education and Dagreea.

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LECTURER I IN PHILOSOPHY

Applications are invited from graduates in Philosophy to teach at Dagree and DipHE level. An ability to raiste Philosophy to the acciet and/or netural sciences is

LECTURER I IN PSYCHOLOGY

Applications are invited from graduales in Psychology to lesch at Dagrae and DipHE level. A specielism in social and/or industrial Psychology will be an advan-

SCHOOL OF TECHNOLOGY AND DESIGN

HEAD OF DIVISION OF ART & DESIGN Head of Department Grade IV

The successful cendidate will be tesponaible for the full-lima and part-lime courses in Art and Dasign. Applicants for this senior post should be able to offer appropriate and auccasplut professional, feaching and administrative experience. SENIOR LECTURER IN

TEXTILES/FASHION

Tha successive applicant will be responsible for the Taxtiles/Fsahlon section, one of these mein areas of full-films study within the Division of Art and Design. The Division is tesponeible for Diploma and Technician coveras, and sppilication has been made to the CNAA for validation of a degree course, to which the auccessive applicant will be expected to make a major contribution.

contribution.
Candidatas ahould possass an appropriete qualification such as ARAC or BA (Taxtilas/Fashion) or equivalent, and have appropriate experience in aducation and/or industry.

The salarios for all the above posts will be in secondance with the Buttsham (Further Education) Scales. Application forms and further particulars are evallebla from Staffing Officer. Bradford College, Great Horton Road, Bradford BD7 1AY, and the completed forms should be returned by May 25, 1977.

Colleges and Institutes of Technology

DUNDER COLLEGE OF TECHNOLOGY

Applications are invited for the post of :---HEAD OF DEPARTMENT OF CIVIL ENGINEERING

The college is a Scottish central institution with a sub-In Collega le a Scolfish central institution with a sub-alantial and growing range of dagree end diploma courses. The daparimant of civil engineering le res-poneible for a dagree validated by CNAA and providea also a higher national certificate course, together with various spacialist short courses. The person appointed may be eligible for a professorship and applicante should have appropriate academic qualifications, ex-perience of teaching all dependence together with a perion or reaching at degree lever and relevant and dustrial and/or research experience, together with a proven record of management ability.

Further particulars and application form obtainable from the Principal, Dundra Collage of Tachnology, Bell Street, Dundas, DD1 1HG, to whom completed explicalion forms should be returned by 27 May, 1977.

DUNDER COLLEGE OF TECHNOLOGY LECTURESHIP in STATISTICS/ OPERATIONAL RESEARCH

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Applicanta should have a good honours dagras in Statistics or in Mathamatics and Statistics and should have an ecadamic qualification and rocent industrial experience in Operational Research. axperiance in Operational Research, Salary on the scale £3.528.66.324 (ber)—£6.807, with initial plecing dependent upon previous experience. Further particulars and application form obtainable from the Principal, Dundes College of Tachnology, Bell Street, Dundes, DD1 1HG, to whom completed application forms should be raturned not later than 27 May 1977.

27 Mey. 1977.

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German-English Dictionary

This dictionary, formerly known as Harrap's

Standard German and English Dictionary, is to be

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will shortly be available again from O.U.P. who

remaining two volumes (S, T-Z). Applications

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The General Editor should have considerable experience in German lexicography and philology

Salary, according to qualifications and experience.

For the other two appointments a First or Second

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Department, Oxford University Press,

Further Education

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Education Section of the Department Apply

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Colleges and Institutes of Technology

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Department of Economics and Managament

Research Studentships

Applications ere invited from condidates with e good hononre dagree in Economics or a releted discipline to underteke resserch for a higher dagree (M.Phil./Ph.D. commencing September, 1977. One of the studentships is lunded by the S.S.R.C. and the remeinder will be College funded. Preferred ereas of study are within existing Departmental research specialisms

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Course Leader

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Applications ere invited from honour graduales for appointment from September 101, 1977, or as soon as possible thereefter, to the post of Course Leader of a proposed S.A. Degrae Course in Combined Humenities which terms part of the Collage's diversification programme el present under consideration by C.N.A.A. Applicants should have experience in the planning. orgenization and teaching of a course of this type in an inelitution of higher education. Selery in accordance with Surnham F.E. Scales, Principal Lecturer Greda (£5,940-£7,579, plus £492 supplement).

Application forms together with further porticulars may be obtained from the Principal, West Midlande College of Higher Education, Gorwoy, Watsell, WS1 3SD, to whom they should be rolumed not later than 23rd May,

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Applications are invited for the post of Lecturer in the Applications are invited for the poat of Lecturer in the English Depertment. Applicants should have a good degree in English with some experience and a strong interest in Primary Education. They should be able to contribute to elementary and advenced courses in lenguage and the teoching of reading, as well as to the gazeral illereture courses of the 8.Ed. programme.

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The College has the following vacancies on the acedemic stall from 1 September, 1977: Head of Depertment of Industrial Design-Lac-

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Further detelle and epplication forms from :-The Registrar National College of Art and Design Kildare Street, DUBLIN 2, Ireland Closing dete: Fridey June 3rd, 1977,

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SENIOR LECTURER

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The post demands comeone with no interest in the whole area of visitol communication in addition to anthusiasm tor his or hor own specialism.

Teaching and industrial experience are associal, and the successful applicant will be expected to insulain existing professional contacts.

Selery: \$5,031-\$5,955 per annum plus \$312 per annum.

Application forms and further particulars era svalisbio from: The Principal, Darby College of Art and Technology, Kedleston Road, Derby DE3 1G8, to whom they should be returned by Fridey, 3rd June, 1977.

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THE ASSOCIATED EXAMINING BOARD for the General Certificate of Education Wallington House, Aldershot, Hampshira GU11 18Q

Applications are invited for the post of

CHIEF EXAMINER IN HISTORY OF ART

AT ORDINARY LEVEL

The appointment will commence with the 1979

Cendideles must be graduale Art Historiens with at least tive years leaching experience to the appropriate level. Examining experience le eleo essentiel. Further perticulers end application forms ere obtainable directly from the Secretary (A10) at the above address to whom completed applications should be returned within tourieen days of this advertisement.

ment at the end of the year. It is intendad to interview candidates during June, end those inlarasted should, by the end of May. write to the Director who, will inform them of the proposed terms of appointman).

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Stratford-upon-Avon

British Gus is establishing a National Management Centre of Holdicate House, Stroiford-upon-Avon, which is currently used as a management training centre by the West Midlands Region. There are vacancies for a Director of Studies and several Theors and these appointments can be of

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Responsible to the Head of the Centre for the design and implementation of general management programmes for middle managers and specialised programmes for senior executives and functional managers. Also responsible for the development and deployment of a team of highly qualified tutors, thaising with HQ and Regional management to increase the effectiveness of management extucation and the training activities of the academic staff. You will also assist the Head of the Centre to frame policy recommendations and draws by budgets.

policy recommendations and draw up budgets.

Male of female, your background must include ocademic and managerial experience. Ideally some time will have been spent within a university or an advanced learning centre in a business department.

Salary will be negotiable around £8000 p.a. Reference PER/226701/TH.

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Reporting to the Director of Studies, you will ossist with the design and implementation of a range of management training programmes whilst having responsibility for certain specialist aspects. Assisting in the identification of training needs and the preparation of all work for programmes responding to these needs, you will be called on to become involved in some training programmes not based at the Centre. Male or female, you will be an experienced manager and/or have a good scalemic background supported by experience has business school type of environment. Above oil, you must demonstrate a bleed of skills and knowledge made up of one or more basic disciplines and an area of functional expertise.

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aby some experience in the

organisation of the work of teams of physicials engaged on

Applications will be considered

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Applicants, of oither sex, should

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Higher Scientillo Officer 23,254-24,454 plue 2313 sapplement

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Closing date : 16th Jane, 1977.

There is a non-contributory saparannas Uon scheme and a senarous leave

Pieese write |or telaphone Wentingion 63800, Est. 4873) for ea application form, quoting reference OL/551/OT to a

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The dulles of the posts will be to

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programme, organisation of effort within the Leboretory for support-

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of expertise in nuclear structura physics could be geined repidly. Successful candidetes will have experience in designing and using acientific equipment, and prefer-

related field, so thel a high level

Nuclear Structure Physiciste in the

inctional expertise.

Salary will be in the range (5721-6682 plus (312 flat rate upplement. Reference PER/226801/Fif.

Please write with full details of age, qualifications, experience and current salary quoting appropriate reference, to the Sculor Personnel Officer, lithish Gas, 54 Bryanston Street, London W1A 2AZ, Closing date for applications 27th May.

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The euccassful cendidete, who will easiet the Pulncipal of the College in the preperetion of eyilabi.for this floid of etudy, will fedure to final year students in finencial, cost and management accountancy and will heve a steff of two to three junior lecturers reporting to him.

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Employment is on a contract, initially for a period of three years. Total annual salary will not be lees then the figures quoted above at current exchange retes. Additional benefits include free passages to end from Zemble; generoue beggage end lex free settling-in ellowancae; low cost jurnished accommodation; tex free children's aducation and iravel ellowences; free life essurence; interest tree loan fowerds cer purchasa, generous paid teeve. Gretully will be lex free and paid annuelly in the U.K. or country of recruitment.

Wrife for an application form quoting raierence TH 498 to:

The Meneger. Zamble Appointments Division, Zimco House, 129-139 Finsbury Pavement, London EC2A 1NA

RCM

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HEAD, **DIVISION OF PROFESSIONAL** SERVICES

Applications are invited for appointment to the above new

The eppointes will be responsible to the Director for the Menegement, co-ordination end proper working of the Museum's 6 professional earlies departments.—Display, Education, Library, Local (Including brench) Museum Services, Material Conservation and Restoration and Rublications.

Application will be proceed to the process of the Museum's oursional fields of interest (zoology, enthropology, archaeology or history) and/or those of its professional eervice departments, end will preferebly have alreedy demonstrated an interest in museology.

As Head of one of the 3 man Professional Divisions of the Museum—the others being Neiure) Science (Zoology) and Human Studies—the eppointee will be expected to deputies for, and act on behalf of the Director as required; report to him on the Division work and manage-ment; provide proposale for preperation of estimetes; supervise Divisional expanditure; and as necessary at as Departmental Head within the Division.

Museum stell ere employed under the Museum Acl, 1999.73; conditions of service are eimiter to those applying to officers in the State Public Service. The initial appointment will be subject to a 6-month proballonary period and provision of a satisfactory medical certificate. The appointment will be made at Level 6, Professional Division (Curstodel Officers) Saterias Agreement 1970. Division (Cureioriei Ollicore) Seleriee Agreement, 1970, at a present selery of \$20,949 p.e.

Applications stelling full personal particulars, quelifica-tions, experience and names and addresses of 3 referese should be made to: The Director, Western Australian Museum, Frencie Streef, Perih, Western Australia, 6000, before June 10, 1977.

J. L. SANNISTER, Director.

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Application forms obtained from fire Registrer. UmiST. P.O. Box 80. Macchester M50 10D, to whom they should be returned by Nay 51, 1977. Piggs. pugle, reference, PF9/. 26701,

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